



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: November 10, 2011

RE: Calumite Company, LLC/127-30781-00024

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 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



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Mr. Mark Abraham
Calumite Company, LLC
1575 Adler Circle, Ste. B
Portage, IN 46368

November 10, 2011

Re: 127-30781-00024
Significant Permit Modification to
Part 70 Operating Permit Renewal: T127-29935-00024

Dear Mr. Abraham:

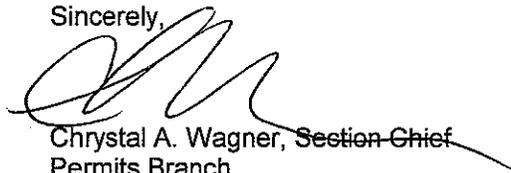
Calumite Company, LLC, was issued Part 70 Operating Permit No. T127-29935-00024 on June 20, 2011, for a stationary source at which blast furnace and basic oxygen furnace slag is converted into calumite. A letter requesting changes to this permit was received on July 28, 2011. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of adding to the permit brick loading operation approved under significant source modification No. 127-30749-00024.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Mehul Sura, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204 2251, or call at (800) 451-6027, and ask for Mehul Sura or extension (3-6868), or dial (317) 233-6868.

Sincerely,



Chrystal A. Wagner, Section Chief
Permits Branch
Office of Air Quality

Attachments:

Updated Permit
Technical Support Document
PTE Calculations

mns

cc: File - Porter County
U.S. EPA, Region V
Porter County Health Department
Northwest Regional Office
Compliance and Enforcement Branch

Susan Grenzebach
OCS Environmental, Inc.
130 Lincoln Street, Suite 1
Porter, IN 46034



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

**Calumite Company LLC - a contractor of
ArcelorMittal Burns Harbor, LLC
915 Sun Drive
Portage, Indiana 46368**

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

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

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

Operation Permit No.: T127-29935-00024	
Issued by: Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 20, 2011 Expiration Date: June 20, 2016

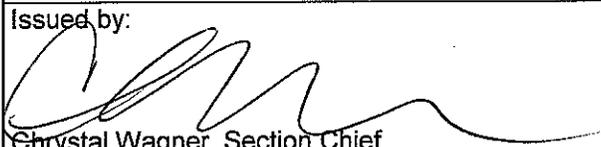
Significant Permit Modification No. 127-30781-00024	
Issued by:  Chrystal Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 10, 2011 Expiration Date: June 20, 2016

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Quarterly Deviation and Compliance Monitoring Report

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1, A.3 through A.4 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a process by which blast furnace and basic oxygen furnace slag is converted into calumite.

Source Address:	915 Sun Drive, Portage, Indiana 46368
General Source Phone Number:	(219)787-9586
SIC Code:	3295
County Location:	Porter
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Nonattainment NSR Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

Calumite Company, LLC, owns and operates this calumite plant, and is a contractor of ArcelorMittal Burns Harbor, LLC:

- (a) ArcelorMittal Burns Harbor, LLC (plant ID 127-00001), the primary operation, is located at U.S. Highway 12, Burns Harbor, Indiana; and
- (b) Calumite Company, LLC (plant ID 127-00024), the secondary operation, is located at 915 Sun Drive, Portage, Indiana.

IDEM has determined that Calumite Company, LLC, is under the common control of ArcelorMittal Burns Harbor, LLC. These plants are considered one (1) source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to ArcelorMittal Burns Harbor, LLC, and Calumite Company, LLC as one (1) source.

Separate Part 70 permits have been issued to ArcelorMittal Burns Harbor, LLC (127-00001) and Calumite Company, LLC (127-00024) solely for administrative purposes.

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

Calumite Company, LLC consists of the following emission units, and pollution control devices:

One (1) calumite plant, constructed in 1980 and modified in 2000, with a maximum capacity of 40 tons per hour, consisting of the following equipment:

- (a) One (1) receiving and feed operation with fugitive emissions, consisting of:
 - (1) Six (6) feed bin hoppers, installed in 2000, with a maximum capacity of 160 tons per hour total.

- (2) One (1) crusher, installed in 2000, with a maximum capacity of 160 tons per hour.
 - (3) Three (3) conveyors, installed in 2000, with a maximum capacity of 160 tons per hour each.
 - (4) One (1) screen, installed in 2000, with a maximum capacity of 160 tons per hour.
 - (5) One (1) recirculating conveyor, installed in 2000, with a maximum capacity of 60 tons per hour.
 - (6) One (1) hopper, installed in 1980, with a maximum capacity of 160 tons per hour.
 - (7) One (1) vibratory feeder, installed in 1980, with a maximum capacity of 75 tons per hour.
 - (8) One (1) dryer feed conveyor, installed in 1980, with a maximum capacity of 75 tons per hour.
 - (9) One (1) magnet and FE bunker, installed in 1980, servicing the slag dryer feed system.
- (b) One (1) slag dryer, identified as 207, installed in 1980, modified in 1994, and approved in 2010 for further modification, with a maximum capacity of 40 tons per hour, equipped with a burner permitted to burn natural gas, No. 2 fuel oil, and No. 4 fuel oil, with a maximum heat input capacity of 49.3 MMBtu per hour, with particulate emissions controlled by the hot gas baghouse identified as 237, exhausting through stack No.1.
- (c) One (1) calumite screening tower process consisting of:
- (1) One (1) No.1 bucket elevator, constructed in 2000, with a maximum capacity of 300 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (2) One (1) No.2 bucket elevator, constructed in 1980, with a maximum capacity of 110 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (3) Two (2) screens, constructed in 2000, with a maximum capacity of 88.5 tons per hour each, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (4) Two (2) Midwestern (fines) screens, installed in 2001, with a maximum capacity of 6 tons per hour each, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (5) Two (2) vibratory feeders, installed in 2000, with a maximum capacity of 32.8 tons per hour each with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (6) Two (2) rare earth magnets and one FE bunker with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (7) One (1) Stedman crusher (cage mill), constructed in 1980, with a maximum capacity of 111 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (8) One (1) No.1 screw conveyor, constructed in 1980, with a maximum capacity of 106 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (9) One (1) No.2 screw conveyor, constructed in 1980, with a maximum capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.
 - (10) One (1) railcar loadout bin with a maximum capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.
 - (11) One (1) truck loadout bin with a maximum holding capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.

- (12) Two (2) horizontal screw conveyors servicing the hot gas baghouse.
 - (13) One (1) product dust loadout bin servicing the hot gas baghouse and the fugitive dust baghouse, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (14) One (1) abrasives bin and feeder with a maximum holding capacity of 170 tons.
- (d) One (1) brick loading operation, approved in 2011 for construction, consisting of the following:
- (1) Bucket loader drops, with a maximum capacity of 60 tons per hour total.
 - (2) Unpaved roads
 - (3) Storage piles

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

Calumite Company, LLC also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21), that are specifically regulated:

- (a) The following VOC and HAP storage containers [326 IAC 8-9]:
 - (A) Storage tanks with capacity less than or equal to 1000 gallons and annual throughputs equal to or less than 12,000 gallons.
 - (B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (b) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (c) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (d) Stock piles with particulate emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)].

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T127-29935-00024, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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

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

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

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

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

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

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

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

and

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

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

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

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

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

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

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

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The

PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, or Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

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

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

- (A) A description of the emergency;

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

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

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

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable

requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

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

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

- (a) All terms and conditions of permits established prior to T127-29935-00024 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

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

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

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

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

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

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

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

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

(4) The Permittee notifies the:

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

and

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

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

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

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

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

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

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

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

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. In the event that the source is a sub-contractor and is combined with a larger Part 70 source, the larger Part 70 source may pay the Permittees' annual fees as part of the larger source billing and subject to the fee cap of the larger source. If, however, the larger Part 70 source does not pay its annual Part 70 permit fee, IDEM, OAQ will assess a separate fee in accordance with 326 IAC 2-7-19(c) to be paid by the Permittee. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).
- All required notifications shall be submitted to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

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

C.9 Performance Testing [326 IAC 3-6]

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 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.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system);
or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

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

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

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

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

The statement must be submitted to:

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

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

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
- (A) A description of the project.
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
- (i) Baseline actual emissions;

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

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions unit shall be submitted no later than sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (d)(1) and (2) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

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

Stratospheric Ozone Protection

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: One (1) calumite plant, constructed in 1980 and modified in 2000, with a maximum capacity of 40 tons per hour, consisting of the following equipment:

- (a) One (1) receiving and feed operation with fugitive emissions, consisting of:
 - (1) Six (6) feed bin hoppers, installed in 2000, with a maximum capacity of 160 tons per hour total.
 - (2) One (1) crusher, installed in 2000, with a maximum capacity of 160 tons per hour.
 - (3) Three (3) conveyors, installed in 2000, with a maximum capacity of 160 tons per hour each.
 - (4) One (1) screen, installed in 2000, with a maximum capacity of 160 tons per hour.
 - (5) One (1) recirculating conveyor, installed in 2000, with a maximum capacity of 60 tons per hour.
 - (6) One (1) hopper, installed in 1980, with a maximum capacity of 160 tons per hour.
 - (7) One (1) vibratory feeder, installed in 1980, with a maximum capacity of 75 tons per hour.
 - (8) One (1) dryer feed conveyor, installed in 1980, with a maximum capacity of 75 tons per hour.
 - (9) One (1) magnet and FE bunker, installed in 1980, servicing the slag dryer feed system.
- (b) One (1) slag dryer, identified as 207, installed in 1980, modified in 1994, and approved in 2010 for further modification, with a maximum capacity of 40 tons per hour, equipped with a burner permitted to burn natural gas, No. 2 fuel oil, and No. 4 fuel oil, with a maximum heat input capacity of 49.3 MMBtu per hour, with particulate emissions controlled by the hot gas baghouse identified as 237, exhausting through stack No.1.
- (c) One (1) calumite screening tower process consisting of:
 - (1) One (1) No.1 bucket elevator, constructed in 2000, with a maximum capacity of 300 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (2) One (1) No.2 bucket elevator, constructed in 1980, with a maximum capacity of 110 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (3) Two (2) screens, constructed in 2000, with a maximum capacity of 88.5 tons per hour each, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (4) Two (2) Midwestern (fines) screens, installed in 2001, with a maximum capacity of 6 tons per hour each, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (5) Two (2) vibratory feeders, installed in 2000, with a maximum capacity of 32.8 tons per hour each with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (6) Two (2) rare earth magnets and one FE bunker with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (7) One (1) Stedman crusher (cage mill), constructed in 1980, with a maximum capacity of 111 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (8) One (1) No.1 screw conveyor, constructed in 1980, with a maximum capacity of 106 tons per hour, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (9) One (1) No.2 screw conveyor, constructed in 1980, with a maximum capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.
 - (10) One (1) railcar loadout bin with a maximum capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.
 - (11) One (1) truck loadout bin with a maximum holding capacity of 42 tons per hour, with particulate emissions controlled by the loadout baghouse identified as 235, exhausting through Stack No.5.
 - (12) Two (2) horizontal screw conveyors servicing the hot gas baghouse.

- (13) One (1) product dust loadout bin servicing the hot gas baghouse and the fugitive dust baghouse, with particulate emissions controlled by the fugitive dust baghouse identified as 234, exhausting through Stack No.2.
 - (14) One (1) abrasives bin and feeder with a maximum holding capacity of 170 tons.
 - (d) One (1) brick loading operation, approved in 2011 for construction, consisting of the following:
 - (1) Bucket loader drops, with a maximum capacity of 60 tons per hour total.
 - (2) Unpaved roads
 - (3) Storage piles
- (The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

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

D.1.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

- (a) The combined usage of No.2 fuel oil with a sulfur content of 0.5% and No.2 fuel oil equivalent in the slag dryer shall be limited to 1,126,600 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The combined usage of No.4 fuel oil with a sulfur content of 0.5% and No.4 fuel oil equivalent in the slag dryer shall be limited to 1,066,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance, every 1,000 gallons of No.4 fuel oil burned in the slag dryer burner shall be equivalent to 1,056.85 gallons of No.2 fuel oil based on SO₂ emissions and a maximum No.4 fuel oil sulfur content of 0.5% such that the total gallons of No.2 fuel oil and No.2 fuel oil equivalent input does not exceed the limit specified.

Compliance with these usage limits restricts the SO₂ emissions from the fuel oil combustion in the slag dryer to less than 40 tons per year, and renders 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

The total PM and PM10 emissions from the brick loading operation shall not exceed 25 and 15 tons per twelve consecutive month period, respectively.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable to the source modification 127-30749-00024.

D.1.3 Particulate [326 IAC 6-3-2]

- (a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the calumite process (excluding one (1) brick loading operation) shall not exceed 42.5 pounds per hour when operating at a process weight rate of 40 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

- (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the brick loading operation shall not exceed 85.2 pounds per hour when operating at a process weight rate of 60 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

D.1.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan in Attachment A – Fugitive Dust Control Plan.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) the SO₂ emissions from the slag dryer (stack No.1) stack shall not exceed five tenths (0.5) pound per MMBtu heat input when combusting No.2 or No.4 fuel oil which equates to a fuel oil sulfur content limit of 0.5%. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Conditions D.1.1 and D.1.5 shall be determined utilizing one (1) of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million Btu heat input by:
- (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the burner using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.
- (c) Compliance or noncompliance shall be determined using a calendar month average sulfur dioxide emission rate in pounds per MMBtu.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.8 Particulate Matter [326 IAC 2-7-6(6)]

- (a) The slag dryer baghouse (237), the fugitive dust baghouse (234), and the loadout station baghouse (235) shall be operating at all times their respective processes are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.9 Fugitive Particulate Matter Control

In order to comply with Condition D.1.2, fugitive particulate matter emissions from the brick loading operation shall be controlled according to the plan in Attachment A – Fugitive Dust Control Plan.

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

D.1.10 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of the slag dryer baghouse stack (No.1), the fugitive dust baghouse stack (No.2), and the loadout station baghouse stack (No.5), brick loading operation and process emission points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.11 Parametric Monitoring [40 CFR 64]

The Permittee shall record the pressure drop across each baghouse used in conjunction with the slag dryer, the screening tower, and the loadout processes, at least once per day when the associated process is in operation. When for any one reading, the pressure drop across the baghouse or the three (3) dust collectors is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C – Response to Excursions or Exceedance contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated in accordance with the manufacturer's specifications or replaced at least once every six (6) months. The specifications shall be available on site with the Preventive Maintenance Plan.

D.1.12 Broken or Failed Bag Detection [40 CFR 64]

In the event that bag failure has been observed for a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the slag dryer or screening tower processes. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

D.1.13 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.1.1 and D.1.5, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Conditions D.1. and D.1.5.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
- (b) To document the compliance status with condition D.1.10, the Permittee shall maintain records of visible emission notations of the specified stack exhausts and process emission points. The Permittee shall include in its daily record when a visible emissions notation is not taken and the reason for the lack of a visible emission notation reading, (e.g., the process did not operate that day).
- (c) To document the compliance status with Condition D.1.11, the Permittee shall maintain records of the pressure drop during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the dryer/burner did not operate that day).
- (d) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

D.1.14 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1 and D.1.5 shall be submitted using the reporting forms located at the end of this permit, or their equivalent not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (a) The following VOC and HAP storage containers [326 IAC 8-9]:
 - (A) Storage tanks with capacity less than or equal to 1000 gallons and annual throughputs equal to or less than 12,000 gallons.
 - (B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (b) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3]
- (c) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]
- (d) Stock piles with particulate emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)].

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

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

D.2.1 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), stationary vessels with a capacity of less than thirty-nine thousand (39,000) gallons (two fuel oil tanks) are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3]

Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs, the Permittee shall ensure that the following requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

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

D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3]

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

- (a) On and after May 1, 2001, no person shall Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) On and after November 1, 1999, all persons subject to the requirements of 326 IAC 8-3-8(c)(1)(B) and (c)(2)(B) shall maintain each of the following records for each purchase:
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase.
 - (3) The type of solvent.
 - (4) The volume of each unit of solvent.
 - (5) The total volume of the solvent.

- (6) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (c) All records required by 326 IAC 8-3-8 (d) shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.

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

D.2.4 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.2, and pursuant to 326 IAC 8-9, the Permittee must keep records of the following:
 - (1) The vessel identification number;
 - (2) The vessel dimensions; and
 - (3) The vessel capacity.Records shall be maintained for the life of the vessel.
- (b) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

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

Source Name: Calumite Company LLC - a contractor of ArcelorMittal Burns Harbor, LLC
Source Address: 915 Sun Drive, Portage, Indiana 46368
Part 70 Permit No.: T127-29935-00024

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Calumite Company LLC - a contractor of ArcelorMittal Burns Harbor, LLC
Source Address: 915 Sun Drive, Portage, Indiana 46368
Part 70 Permit No.: T127-29935-00024

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

Part 70 Quarterly Report

Source Name: Calumite Company LLC - a contractor of ArcelorMittal Burns Harbor, LLC
 Source Address: 915 Sun Drive, Portage, Indiana 46368
 Part 70 Permit No.: T127-29935-00024
 Facility: Slag dryer
 Parameter: No. 2 fuel oil (0.5% sulfur) and oil equivalent
 Limit: The combined usage shall be limited to 1,126,600 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER :

YEAR:

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

No deviation occurred in this quarter.

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

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

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

Part 70 Quarterly Report

Source Name: Calumite Company LLC - a contractor of ArcelorMittal Burns Harbor, LLC
 Source Address: 915 Sun Drive, Portage, Indiana 46368
 Part 70 Permit No.: T127-29935-00024
 Facility: Slag dryer
 Parameter: No. 4 fuel oil (0.5% sulfur content) and equivalent fuel oil
 Limit: The combined usage shall be limited to 1,066,000 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance, every 1,000 gallons of No.4 fuel oil burned in the slag dryer burner shall be equivalent to 1,056.85 gallons of No.2 fuel oil

QUARTER :

YEAR:

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

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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

Source Name: Calumite Company LLC - a contractor of ArcelorMittal Burns Harbor, LLC
 Source Address: 915 Sun Drive, Portage, Indiana 46368
 Part 70 Permit No.: T127-29935-00024

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**CALUMITE COMPANY, LLC.
CALUMITE PLANT
PORT OF INDIANA**

FUGITIVE DUST CONTROL PLAN

REVISION 2

August 2011

Fugitive Dust Control Plan

Calumite Company LLC
Calumite Plant, Port of Indiana

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Fugitive Dust Control Plan

Calumite Company LLC
Calumite Plant, Port of Indiana

Facility Description

Calumite Company, LLC (Calumite) owns and operates a stationary calumite production facility in located within the Port of Indiana in Portage, Indiana. Calumite is produced from blast furnace slag received from a local integrated steel-making facility. Blast furnace slag is crushed and processed into a fine aggregate substance (calumite) that is sold as a raw material product for the glass-making industry. Spent refractory (bricks) from another facility are periodically loaded into rail cars at this facility as well.

Roadways and Fugitive Roadway PM₁₀ Emissions

All roadways that are under the control of Calumite are approximately 30 feet wide with varying lengths. Figure 1 shows 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 roadway PM₁₀ emission calculations for the facility.

Storage Piles

Raw material (slag) is 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 slag stored on site can range from 0.92% to 3% and greatly depends on atmospheric precipitation throughout the year. Calumite product materials are stored inside product bins. Only off-spec product material is stockpiled with wet suppression and chemical suppressants when needed. Spent refractory (whole brick) will be periodically stored/piled near the rail spur for loading onto rail cars.

Material Process Flow

In the Calumite process, slag is moved through a series of crushers and screens via conveyor system. Wet suppression and baghouse capture/control is utilized at strategic points in the process which can provide up to 90% capture/control efficiency. A

Fugitive Dust Control Plan

Calumite Company LLC
Calumite Plant, Port of Indiana

secondary operation will be periodically conducted to load spent refractory into rail cars for transport to customers.

Control Measures and Practices

Water and chemical dust suppressant applications are the control measures utilized in areas that are not evacuated to a baghouse. Water/chemical application is suspended based on weather events as follows:

- during periods of rainfall (0.10 inches or more)
- when temperatures are at or below freezing
- when ice or snow cover is present.

The phrase “weather permitting” used in the following paragraphs herein designates the suspension of control application during the weather events listed above.

I. Site Roadways / Plant Yard

Dust on unpaved roads is controlled by applications of water or chemical suppressant during operating hours, weather permitting. Paved roads are treated with a water truck during operating hours, weather permitting. Applications of dust control material are done as often as necessary to meet applicable limits.

II. Process Operations

To help minimize dust emissions, the drop distance at each conveyor transfer point in the plant is set at the minimum distance in which the equipment can operate effectively. Wet suppression methods are utilized, weather permitting, and located strategically throughout the plant to control dust emissions in areas where baghouse evacuation is not utilized. During water application, caution must be taken to avoid saturating the material which results in blinding the screens and producing an off-spec material. Baghouse evacuation is utilized from the slag dryer process to the loadout process.

Fugitive Dust Control Plan

Calumite Company LLC
Calumite Plant, Port of Indiana

III. Storage Piles

To reduce potential dust emissions, stockpiling is performed at minimum drop distances, to the extent practicable. Raw material (slag) is 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 slag stored on site can range from 0.92% to 3% and greatly depends on atmospheric precipitation throughout the year. Calumite product materials are stored inside product bins. Only off-spec product material is stockpiled with wet suppression and chemical suppressants when needed. Spent refractory (bricks) piles are wetted with water when needed to reduce dust. These are not normally stored onsite, rather, they are only stockpiled long enough to be loaded into a rail car.

IV. Loading and Transfer; Trucks and Front-End Loaders

Trucks are loaded in a manner to reduce or prevent materials from dropping, blowing or otherwise escaping. Loading into rail car or truck loading is conducted at the product loadout bins. The drop distance is minimized to reduce dust and the loadout bins are equipped with a retractable loading spout designed to minimize dust during loading operations. Front end loaders are used to load spent refractory (bricks) into rail cars and minimum drop distances are used to prevent or reduce dust during loading.

Documentation and Record Keeping

Wet suppression records for roadways are maintained in accordance with 326 IAC 6-1-11.1 using a documentation log. A sample of this log is located in Appendix B. Records are retained for a minimum of five (5) years.



APPROXIMATE PROPERTY
BOUNDARY LINE

NOTE: THE NORTH LEG OF ROAD S3 MAY MIGRATE WESTWARD TOWARD ROAD C1 AT ANYTIME AS PILE SIZES CHANGE AND/OR MIGRATE THROUGHOUT THIS AREA.

 OCS Environmental, Inc.		130 Lincoln Street, Suite 1 Porter, Indiana 46304 Phone - (219) 983-1400 Fax - (219) 983-1414	
		Fugitive Dust Control Plan Map Calumite Company LLC - Port of Indiana	
DRAWN: SSG	SCALE: GOOGLE EARTH SCALE	DATE: 05/11/2011	
CHECKED: KL	DWG #:		
FILE: CALU11001	FDCP MAP		

APPENDICES

**ACTUAL ESTIMATED EMISSIONS FROM UNPAVED ROADWAYS
CALUMITE COMPANY, LLC.**

Vehicle	Estimated Maximum Throughput (tons/yr)	Tare Weight (tons)	Gross Weight (tons)	Product Weight (tons per round trip)	Round Trips/yr	Miles per round trip	VMT/yr
Customer Bulker Trucks	110,550	14	37	23	4,807	0.25	1,202
Slag Hauler Trucks	113,050	25	80	55	2,055	0.25	514
Bobcat (used for cleanup & mtce)	15,000	5	6	1	15,000	0.18	2,700
972G Loader	110,550	25	35	10	11,055	0.18	1,990

conservative

Unpaved Roadways Continued

Vehicle	Mean Weight (W) (tons)	PM Emission Factor ² (lb/VMT)	PM10 Emission Factor ² (lb/VMT)	VMT/yr	UNCONTROLLED		CONTROLLED*	
					Maximum PM Annual Emissions (TPY)	Maximum PM10 Annual Emissions (TPY)	Maximum PM Annual Emissions (TPY)	Maximum PM10 Annual Emissions (TPY)
Customer Bulker Trucks	26	13.14	4.62	1,202	7.89	2.78	1.97	0.69
Slag Hauler Trucks	53	18.19	6.39	514	4.67	1.64	1.17	0.41
Bobcat (used for cleanup & mtce)	6	6.59	2.32	2,700	8.89	3.13	2.22	0.78
972G Loader	30	14.14	4.67	1,990	14.07	4.95	3.52	1.24
					35.53	12.49	8.88	3.12

*Based on a 75% control efficiency from the periodic application of water and/or other dust suppressants was applied.

Reference AP-42, 13.2.2 Eq (1a) and (2), Version 12/03

$$E = k((s/12)^a) ((W/3)^b) ((365-p)/365)$$

Variable	PM10 Value	Units	Description
k	1.5	lb/VMT - Table 13.2.2-2	empirical constant
a	0.9	Table 13.2.2-2	empirical constant
b	0.45	Table 13.2.2-2	empirical constant
W	see above	tons	mean vehicle weight
s**	24	% (Table 13.2.2-1)(iron/steel mills)	surface material silt content x4 to acct for mxture with calumite product dust
p	135	Figure 13.2.2-1	mean number of days in a year with at least 0.01 inches of precipitation

Variable	PM Value	Units	Description
k	4.9	Table 13.2.2-2	empirical constant
a	0.7	Table 13.2.2-2	empirical constant
b	0.45	Table 13.2.2-2	empirical constant
W	see above	tons	mean vehicle weight
s**	24	% (Table 13.2.2-1)(iron/steel mills)	surface material silt content x4 to acct for mxture with calumite product dust
p	135	Figure 13.2.2-1	mean number of days in a year with at least 0.01 inches of precipitation

**Value of the iron and steel used, majority of roads are within raw material storage (slag piles).

Calumite Company, LLC
Fugitive Dust Control Documentation Log

Fill in data for each road dust control application event (as multiple application events may occur in a day).

Date: _____

Weather Conditions (check all that apply): Temperature \geq 32°F Rainfall \geq 0.1 inches Ice and/or Snow Cover Present

Application may be suspended if any of these weather events are present. However, this documentation must be retained.

	Road S-1 (unpaved)	Road S-2 (unpaved)	Road S-3 (unpaved)	Road S-4 (unpaved)	Road C-1 (unpaved)	Road C-2 (unpaved)
Application Rate(s)						
Time(s) of each application						
Width(s) of each application						
Type of application	<input type="checkbox"/> Water Spray <input type="checkbox"/> Chemical					
Quantity(s) of each application						
If chemical used, concentration of each application						

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

Addendum to the Technical Support Document (ATSD) for
Part 70 Significant Source and Significant Permit Modification

Source Description and Location

Source Name:	Calumite Company, LLC
Source Location:	915 Sun Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	3295
Operation Permit No.:	T127-29935-00024
Operation Permit Issuance Date:	June 20, 2011
Significant Source Modification No.:	127-30749-00024
Significant Permit Modification No.:	127-30781-00024
Permit Reviewer:	Mehul Sura

Public Notice Information

On September 19, 2011, the Office of Air Quality (OAQ) had a notice published in the *Chesterton Tribune*, Chesterton, Indiana stating that IDEM had received an application from Calumite Company, LLC located at 915 Sun Drive, Portage, Indiana 46368 for significant source and significant permit modifications to its Part 70 Operating Permit No. T127-29935-00024, issued on June 20, 2011. The notice also stated that OAQ proposed to issue these significant source and significant permit modifications and provided information on how the public could review the proposed significant source and significant permit modifications and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not these significant source and significant permit modifications should be issued as proposed.

Upon further review IDEM, OAQ has changed the wordings 'Part 70 Operating Permit' to 'Part 70 Administrative Operating Permit' on the cover page of the permit.

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

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

Source Description and Location

Source Name:	Calumite Company, LLC
Source Location:	915 Sun Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	3295
Operation Permit No.:	T127-29935-00024
Operation Permit Issuance Date:	June 20, 2011
Significant Source Modification No.:	127-30749-00024
Significant Permit Modification No.:	127-30781-00024
Permit Reviewer:	Mehul Sura

Source Definition

Calumite Company, LLC, owns and operates this calumite plant, and is a contractor of ArcelorMittal Burns Harbor, LLC:

- (a) ArcelorMittal Burns Harbor, LLC (plant ID 127-00001), the primary operation, is located at U.S. Highway 12, Burns Harbor, Indiana; and
- (b) Calumite Company, LLC (plant ID 127-00024), the secondary operation, is located at 915 Sun Drive, Portage, Indiana.

IDEM has determined that Calumite Company, LLC, is under the common control of ArcelorMittal Burns Harbor, LLC. These plants are considered one (1) source due to contractual control. Therefore, the term "source" in the Part 70 documents refers to ArcelorMittal Burns Harbor, LLC, and Calumite Company, LLC as one (1) source.

Separate Part 70 permits have been issued to ArcelorMittal Burns Harbor, LLC (127-00001) and Calumite Company, LLC (127-00024) solely for administrative purposes.

Existing Approvals

The source was issued Part 70 Operating Permit No. T127-29935-00024 on June 20, 2011. The source has since received the following approvals:

- (a) Temporary Operation No. 127-30570-00024, issued on June 7, 2011

County Attainment Status

The source is located in Porter County.

Pollutant	Designation
SO ₂	Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective May 11, 2010, for the 8-hour ozone standard. ¹

Pollutant	Designation
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Porter County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3. Basic nonattainment designation effective federally April 5, 2005, for PM _{2.5} .	

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

- (b) **PM_{2.5}**
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Porter as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

Fugitive Emissions

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

Source Status

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

Pollutant	Emissions (ton/yr)
PM	>100
PM ₁₀	>100
PM _{2.5}	>100
SO ₂	>100
VOC	>100
CO	>100
NO _x	>100

Pollutant	Emissions (ton/yr)
GHG as CO ₂ e	>100,000
Single HAP	>10
Combined HAP	>25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 100 tons per year or more, emissions of GHG are equal to or greater than one hundred thousand (100,000) tons of CO₂ equivalent (CO₂e) emissions per year and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is a major stationary source under nonattainment new source review rules (326 IAC 2-1.1-5) since direct PM_{2.5} and/or SO₂ is emitted at a rate of 100 tons per year or more.
- (c) These emissions are based upon Part 70 Operating Permit No. T127-29935-00024 issued on June 20, 2011.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Calumite Company, LLC on July 28, 2011, relating to add a brick loading operation. The following is a list of the proposed emission units and pollution control devices:

- (a) One (1) brick loading operation, approved for construction in 2011, consisting of the following:
 - (1) Bucket loader drops, with a maximum capacity of 60 tons per hour total.
 - (2) Unpaved roads
 - (3) Storage piles

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

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

PTE Before Controls of the Modification	
Pollutant	Potential To Emit (ton/yr)
PM	41.9
PM ₁₀	16.17
PM _{2.5}	1.59
SO ₂	-
VOC	-
CO	-
NO _x	-

This source modification is subject to 326 IAC 2-7-10.5(f)(4)(A) because the PTE of PM/PM10 is greater than 25 tons per year. Additionally, this modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12 (d)(1), because this modification does not qualify as a minor permit revision or administrative amendment.

Permit Level Determination – PSD 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 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process	Potential to Emit (ton/yr)						
	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC	CO	NO _x
One (1) brick loading operation consisting of the following: (1) Bucket loader drops (2) Unpaved roads (3) Storage piles	19.31	7.3	0.55	0.55	-	-	-
PSD Significant Level	25	15	NA	10	40	100	40
Nonattainment New Source Review (326 IAC 2-1.1-5) Major Source Thresholds	NA	NA	10	NA	NA	NA	NA

PM/PM10 PTEs are based on the PSD Minor limits taken by the source (for details of this PSD Minor limits, please refer 326 IAC 2-2 (PSD) rule applicability under 'State Rule Applicability Determination' section of this TSD).

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

Federal Rule Applicability Determination

New Source Performance Standard (NSPS)

- (a) Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants
The proposed emission units do not include brick crushing or grinding operation, therefore, the proposed emission units are not subject to requirements of this NSPS.
- (b) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit due to this proposed modification.

National Emission Standards for Hazardous Air Pollutants (NESHAPs)

- (a) There are no NESHAPs (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit due to this proposed modification.

Compliance Assurance Monitoring (CAM)

Pursuant to 40 CFR 64.2, CAM is applicable to each existing pollutant-specific emission unit that meets the following criteria:

- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
- (2) is subject to an emission limitation or standard for that pollutant; and
- (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

None of the proposed operations uses control device, as defined in 40 CFR 64.1. Therefore, CAM does not apply to any of the proposed operation.

State Rule Applicability Determination

326 IAC 2-1.1-5 (Nonattainment New Source Review)

Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Nonattainment NSR section.

326 IAC 2-2 (PSD)

The total PM and PM10 emissions from the brick loading operation shall not exceed 25 and 15 tons per twelve consecutive month period, respectively.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable to this proposed modification.

In order to comply with these limits, particulate emissions from the brick loading operation shall be controlled according to the fugitive dust control plan (FDCP) (See Attachment A of the permit).

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the proposed Bucket loader drops operation shall not exceed 85.2 pounds per hour when operating at a process weight rate of 60 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

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

The potential particulate emissions from the proposed Bucket loader drops operation is less than 85.2 pounds per hour. Therefore, the proposed Bucket loader drops operation can comply with this rule.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5, fugitive particulate matter emissions from the one (1) brick loading operation shall be controlled according to the fugitive dust control plan (FDCP) (See Attachment A of the permit).

Compliance Determination and Monitoring Requirements

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

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

Compliance Monitoring Requirement

The Permittee shall perform daily visible emission notations of the particulate emissions from the proposed brick loading operation.

This monitoring requirement is necessary for the following:

- (a) To ensure that the Fugitive Dust Control Plan is implemented by the Permittee on a continuous basis to comply with the 326 IAC 6-5.
- (b) To comply with 326 IAC 2-7 (Part 70) and PM and PM10 PSD limits specified in 'State Rule Applicability determination' section of this TSD.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T127-29935-00024. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

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

...

- (d) **One (1) brick loading operation, approved in 2011 for construction, consisting of the following:**
 - (1) **Bucket loader drops, with a maximum capacity of 60 tons per hour total.**
 - (2) **Unpaved roads**
 - (3) **Storage piles**

SECTION D.1

FACILITY OPERATION CONDITIONS

...

(d) One (1) brick loading operation, approved in 2011 for construction, consisting of the following:

- (1) Bucket loader drops, with a maximum capacity of 60 tons per hour total.**
- (2) Unpaved roads**
- (3) Storage piles**

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

...

D.1.2 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

The total PM and PM10 emissions from the brick loading operation shall not exceed 25 and 15 tons per twelve consecutive month period, respectively.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable to the source modification 127-30749-00024.

~~D.1.2~~**D.1.3 Particulate [326 IAC 6-3-2]**

(a) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the calumite process (**excluding one (1) brick loading operation**) shall not exceed 42.5 pounds per hour when operating at a process weight rate of 40 tons per hour. The pounds per hour limitation was calculated with the following equation:

...

(b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the brick loading operation shall not exceed 85.2 pounds per hour when operating at a process weight rate of 60 tons per hour. The pounds per hour limitation was calculated with the following equation:

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

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

~~D.1.3~~**D.1.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]**

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled ~~by wet suppressant on an as-needed basis~~ **according to the plan in Attachment A – Fugitive Dust Control Plan.**

~~D.1.4~~**D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1] [326 IAC 7-2-1]**

...

~~D.1.5~~**D.1.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

...

Compliance Determination Requirements

~~D.1.6~~D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Conditions D.1.1 and ~~D.1.4~~D.1.5 shall be determined utilizing one (1) of the following options:

...

~~D.1.7~~D.1.8 Particulate Matter [326 IAC 2-7-6(6)]

...

~~D.1.8~~ Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to ~~326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)~~, fugitive particulate matter emissions shall be controlled by wet suppressant on an as-needed basis.

D.1.9 Fugitive Particulate Matter Control

In order to comply with Condition D.1.2, fugitive particulate matter emissions from the brick loading operation shall be controlled according to the plan in Attachment A – Fugitive Dust Control Plan.

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

~~D.1.9~~D.1.10 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of the slag dryer baghouse stack (No.1), the fugitive dust baghouse stack (No.2), and the loadout station baghouse stack (No.5), **brick loading operation** and process emission points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

...

~~D.1.10~~D.1.11 Parametric Monitoring [40 CFR 64]

...

~~D.1.11~~D.1.12 Broken or Failed Bag Detection [40 CFR 64]

...

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

~~D.1.12~~D.1.13 Record Keeping Requirements

(a) To document the compliance status with Conditions D.1.1 and ~~D.1.4~~D.1.5, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Conditions D.1. and ~~D.1.4~~D.1.5.

...

(b) To document the compliance status with condition ~~D.1.9~~D.1.10, the Permittee shall maintain records of visible emission notations of the specified stack exhausts and process emission points. The Permittee shall include in its daily record when a visible emissions notation is not taken and the reason for the lack of a visible emission notation reading, (e.g., the process did not operate that day).

(c) To document the compliance status with Condition ~~D.1.10~~D.1.11, the Permittee shall maintain records of the pressure drop during normal operation. The Permittee shall include in

its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the dryer/burner did not operate that day).

...

D.1.13D.1.14 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.1.1 and ~~D.1.4~~**D.1.5** shall be submitted using the reporting forms located at the end of this permit, or their equivalent not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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. 127-30749-00024 and Significant Permit Modification No. 127-30781-00024, respectively. The staff recommends to the Commissioner that this Part 70 Significant Source and Significant Permit Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Mehul Sura at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-6868 or toll free at 1-800-451-6027 extension (3-6868).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Company Name: Calumite Company, LLC
 Address City IN Zip: 915 Sun Drive, Portage, Indiana 46368
 Significant Source Modification No.: 127-30749-00024
 Significant Permit Modification No.: 127-30781-00024
 Reviewer: Mehul Sura
 Date: 8/15/2011

Potential to Emit (PTE) Summary
 UNCONTROLLED EMISSIONS

Total Throughput: 525,600 Tons per year

Unit	PM Emission Factor (lb/ton)	PM Emissions (tpy)	PM-10 Emission Factor (lb/ton)	PM-10 Emissions (tpy)	PM-2.5 Emission Factor (lb/ton)	PM-2.5 Emissions (tpy)
Bucket loader drops	0.003	0.788	0.0011	0.2891	0.0011	0.2891
Roadway Emissions	---	30.41937	---	10.69674	---	0.01141
Pile Emissions	0.02530	6.64846	0.01197	3.14454	0.00376	0.98829
Wind Erosion	---	4.07804	---	2.03902	---	0.30585
Total PM		41.934	Total PM-10	16.169	Total PM2.5	1.595

	PM lb/ton	PM-10 lb/ton	PM-2.5 lb/ton
AP-42 Emission factors			
Crushing	0.0054	0.0024	0.0024
Fines Crushing	0.039	0.015	0.015
Screening	0.025	0.0087	0.0087
Fines Screening	0.3	0.072	0.072
Conveyor Transfer Point	0.003	0.0011	0.0011

AP-42, 11-19, 8/04

The maximum loader rate is 60 tons of brick per hour.

CONTROLLED EMISSIONS

Total Throughput: 525,600 Tons per year

Unit	PM Emission Factor (lb/ton)	PM Emissions (tpy)	PM-10 Emission Factor (lb/ton)	PM-10 Emissions (tpy)	PM-2.5 Emission Factor (lb/ton)	PM-2.5 Emissions (tpy)
Bucket loader drops	0.003	0.394	0.0011	0.1445	0.0011	0.1445
Roadway Emissions	---	15.20969	---	5.34837	---	0.00570
Pile Emissions	0.02530	1.66212	0.01197	0.78614	0.00376	0.24707
Wind Erosion	---	2.03902	---	1.01951	---	0.15293
Total PM		19.305	Total PM-10	7.299	Total PM2.5	0.550

WET SUPPRESSION AS NEEDED AND INTERNAL MOLECULAR CONTROL, BRICK. 50% 75%

	PM lb/ton	PM-10 lb/ton	PM-2.5 lb/ton
AP-42 Emission factors			
Crushing	0.0054	0.0024	0.0024
Fines Crushing	0.039	0.015	0.015
Screening	0.025	0.0087	0.0087
Fines Screening	0.3	0.072	0.072
Conveyor Transfer Point	0.003	0.0011	0.0011

AP-42, 11-19, 8/04

The maximum loader rate is 60 tons of brick per hour.

Company Name: Calumite Company, LLC
 Address City IN Zip: 915 Sun Drive, Portage, Indiana 46368
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EMISSIONS FROM UNPAVED ROADWAYS

Vehicle	Estimated Maximum Throughput (tons/yr)	Tare Weight (tons)	Gross Weight (tons)	Product Weight (tons per round trip)	Round Trips/yr	Miles per round trip	VMT/yr
Brick Hauling Trucks	525,600	14	37	23	22,852	0.10	2,285
972G Loader	525,600	30	35	5	105,120	0.02	2,102

-brick is received by truck via public roadways-the unpaved portion is on Calumite property

Unpaved Roadways Continued

Vehicle	Mean Weight (W) (tons)	PM2.5 Emission Factor ² (lb/VMT)	PM Emission Factor ² (lb/VMT)	PM10 Emission Factor ² (lb/VMT)	VMT/yr	UNCONTROLLED			CONTROLLED		
						PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)	PM Emissions (TPY)	PM10 Emissions (TPY)	PM2.5 Emissions (TPY)
Brick Hauling Trucks	26	0.71	13.14	4.62	2,285	15.014	5.2795	0.005318	7.507	2.640	0.003
972G Loader	33	0.79	14.66	5.15	2,102	15.406	5.4173	0.006087	7.703	2.709	0.003
						30.419	10.6967	0.011405	15.209687	5.348370	0.005703

2. Reference AP-42, 13.2.2, Version 12/03
 $E = k((s/12)^a) ((W/3)^b) ((365-p)/365)$

WET SUPPRESSION CONTROL 50%

Variable	PM10 Value	Units	Description
k	1.5	lb/VMT - Table 13.2.2-2	empirical constant
a	0.9	Table 13.2.2-2	empirical constant
b	0.45	Table 13.2.2-2	empirical constant
W	see above	tons	mean vehicle weight
s	24	% (Table 13.2.2-1)(iron/steel mills)	surface material silt content x4
p	135	Figure 13.2.2-1	mean number of days in a year with at least 0.01 inches of precip

Variable	PM Value	Units	Description
k	4.9	Table 13.2.2-2	empirical constant
a	0.7	Table 13.2.2-2	empirical constant
b	0.45	Table 13.2.2-2	empirical constant
W	see above	tons	mean vehicle weight
s	24	% (Table 13.2.2-1)(iron/steel mills)	surface material silt content x4
p	135	Figure 13.2.2-1	mean number of days in a year with at least 0.01 inches of precip

Variable	PM2.5 Value	Units	Description
k	0.23	Table 13.2.2-2	empirical constant
a	0.9	Table 13.2.2-2	empirical constant
b	0.45	Table 13.2.2-2	empirical constant
W	see above	tons	mean vehicle weight
s	24	% (Table 13.2.2-1)(iron/steel mills)	surface material silt content x4
p	135	Figure 13.2.2-1	mean number of days in a year with at least 0.01 inches of precip

Company Name: Calumite Company, LLC
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STORAGE PILES**Batch Loading and Unloading Operations from Storage Piles (Aggregate Handling)**

$$E = k * (0.0032) * [(U/5)^{1.3} / (M/2)^{1.4}] \text{ lbs/ton}$$

Factor	Value	Source	Description
E PM	0.0252986	Calculated	emission factor
E PM10	0.0119655	Calculated	emission factor
E PM2.5	0.0037606	Calculated	emission factor
k PM	0.74	13.2.4, Pg 3	particle size multiplier (dimensionless)
k PM10	0.35	13.2.4, Pg 3	particle size multiplier (dimensionless)
k PM2.5	0.11	13.2.4, Pg 3	particle size multiplier (dimensionless)
U	13.4	internet	mean wind speed, (mph) [source=rredc.nrel.gov/wind/pubs/atlas/maps/chap1/2-06m.html]
M	0.92	Table 13.2.4-1	material moisture content (median value)

$E_{PM} = 0.0252986 \text{ lb/ton}$
$E_{PM10} = 0.0119655 \text{ lb/ton}$
$E_{PM2.5} = 0.0037606 \text{ lb/ton}$

Wind Erosion from Storage Piles (Storage)

$$E_f = 1.7 * (s/1.5)^3 * (365-p) / 235 * (f/15)$$

$$= 1.16 \text{ lb/acre/day}$$

where s = 1 % silt content of material, whole brick has very little silt.

p = 125 days of rain greater than or equal to 0.01 inches

f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = E_f * sc * (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) * (365 \text{ day/yr})$$

where sc = 525,600 tons storage capacity

= 4.07804 tons PM/yr Uncontrolled

= 2.03902 tons PM-10/yr Uncontrolled

= 0.30585 tons PM-2.5/yr Uncontrolled

2.03902 tons PM/yr Controlled

1.01951 tons PM-10/yr Controlled

0.15293 tons PM-2.5/yr Controlled

This equation is from AP-42, Fourth Edition, Section 11.2.3 (5/83).

This section of AP-42 has been superseded with a revised version at Section 13.2.4.

The revised Section 13.2.4 does not offer wind erosion estimation equations.

PM10 = 50% of PM

PM2.5 = 7.5% of PM

WET SUPPRESSION CONTROL 50%



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: Mark Abraham
Calumite Company, LLC - contractor of ArcelorMitta
900 George Nelson Dr
Portage, IN 46368

DATE: November 10, 2011

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

SUBJECT: Final Decision
Title V
127-30781-00024

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

November 10, 2011

TO: Portage Public Library

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

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

Applicant Name: Calumite Company, LLC
Permit Number: 127-30781-00024

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	PWAY 11/10/2011 Calumite Company, LLC 127-30781-00024 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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		Mark Abraham Calumite Company, LLC - contractor of ArcelorMitta 900 George Nelson Dr Portage IN 46368 (Source CAATS)										
2		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
3		Portage Public Library 2665 Irving Street Portage IN 46368 (Library)										
4		Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official)										
5		Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department)										
6		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
7		Mr. Ed Dybel 2440 Schrage Avenue Whiting IN 46394 (Affected Party)										
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
9		Mr. Dee Morse National Park Service 12795 W Alameda Pky, P.O. Box 25287 Denver CO 80225-0287 (Affected Party)										
10		Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party)										
11		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
12		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
13		Burns Harbor Town Council 1240 N. Boo Rd Burns Harbor IN 46304 (Local Official)										
14		Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party)										
15		Susan Grenzebach OCS Environmental 130 Lincoln St. Porter IN 46304 (Consultant)										

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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1		Joseph 11723 S Oakridge Drive St. John IN 46373 (Affected Party)									
2		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)									
3		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)									
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