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 1, 2011

RE: Harsco Minerals Briquetting LLC / 089-30936-00323

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 approval 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) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-MOD.dot 12/3/07

IDEM

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

Mr. Guy Kosmoski
Harsco Minerals Briquetting LLC
5222 Indianapolis Boulevard
East Chicago, Indiana 46312

November 1, 2011

Re: 089-30936-00323
Minor Permit Revision to
F089-23324-00323

Dear Mr. Kosmoski:

Harsco Minerals Briquetting LLC, formerly known as National Briquette Corporation was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F089-23324-00232 on June 3, 2008, for a stationary Briquette Manufacturing operation located at 5222 Indianapolis Boulevard, East Chicago, Indiana. On September 19, 2011, the Office of Air Quality (OAQ) received a letter from the source requesting following changes:

1. The permit be updated to change the company name from "National Briquette Corporation" to "Harsco Minerals Briquetting LLC".

2. Construction and operation of one (1) mixing and bagging system of raw material with a maximum capacity of 21 tons/hr, equipped with a baghouse to control particulates. The system consists of four (4) bins, (5) conveyors, and (1) bagging hopper.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the source. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Minor Permit Revision (MPR) procedures of 326 IAC 2-8-11.1(e). Pursuant to the provisions of 326 IAC 2-8-11.1, a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

The following construction conditions are applicable to the proposed project:

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

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

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

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval

or if construction is suspended for a continuous period of one (1) year or more.

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

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

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 Swarna Prabha, of my staff, at 317-234-5376 or 1-800-451-6027, and ask for extension 4-5376.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document, emission calculations, and revised permit

IC/SP

cc: File - Lake County
Lake County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section

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

Federally Enforceable State Operating Permit
OFFICE OF AIR QUALITY

Harsco Minerals Briquetting LLC
(Formerly known as National Recovery Systems)
5222 Indianapolis Boulevard
East Chicago, Indiana 46312

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. 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 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

Operation Permit No.: F089-23324-00323	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 3,2008 Expiration Date: June 3, 2018

First Administrative Amendment No.: 089-26691-00323, issued on July 02, 2008

Minor Permit Revision No.: F089-30936-00323	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: November 1, 2011 Expiration Date: June 3, 2018

TABLE OF CONTENTS

SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary briquette manufacturing.

Source Address:	5222 Indianapolis Boulevard, East Chicago, Indiana 46312
General Source Phone Number:	219-392-1403
SIC Code:	3399 (Primary Metal Products, Not Elsewhere Classified)
County Location:	Lake
Source Location Status:	Attainment for 8-hour ozone standard Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

(a) one (1) natural gas fired dryer and a cyclone dust collection system, identified as unit A, rated at 25 million British thermal units (Btu) per hour, with a maximum production capacity of 20 tons per hour, constructed November 1978 and relined in 2007, using a jetpulse baghouse system as the control, installed in June 2007, exhausting to stack (S5) (Plants 1 & 2).

(b) one (1) raw material use silo, identified as Silo #1, with a maximum capacity of 60 tons, particulate dust from the baghouse and cyclone are sent to the storage silo by bucket elevator, constructed April 1987, exhausting to stack (S5) (Plants 1& 2).

(c) one (1) north bulk powder blue silo, identified as Silo #2, with a maximum production capacity of 0.525 tons per hour, using bin vents as the control, constructed May 1973, exhausting to stack (S1) (Plant 2).

(d) one (1) south bulk powder blue silo, identified as Silo #3, with a maximum production capacity of 0.35 tons per hour, using bin vents as the control, constructed May 1973, exhausting to stack (S2) (Plant 2).

(e) one (1) mixer and bucket elevator, identified as Briquette Line #1, with a capacity of 15 tons per hour, using a reverse air baghouse dust collection system as the control (S8), constructed April 1987, exhausting to the atmosphere; and one (1) hopper, one (1) shaker, one (1) pug mill, one (1) bucket elevator, and one (1) briquetter, with no control equipment, each with a maximum capacity of 15 tons per hour, each located on the large briquetting line (Plants 1& 2), constructed April 1987.

(f) one (1) storage/processing tank, identified as Tank #1, located on the large briquetting line (Plants 1& 2), with a maximum storage capacity of 30 tons, using bin vents as the control, constructed April 1987, exhausting at stack (S6).

(g) one (1) storage/processing tank, identified as Tank #2, located on the large briquetting line (Plants 1& 2), with a maximum storage capacity of 20 tons, using bin vents as the control, constructed April 1987, exhausting at stack (S7).

(h) one (1) bulk powder storage silo, identified as Portland Cement Silo #3, located on the small briquetting line (Plant 3), with a maximum storage capacity of 60 tons, using bin vents as the control, constructed April 1987, exhausting at stack (S3).

(i) one (1) mixer, identified as Desulf Station # 1, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed June 1982, exhausting at stack (S12).

(j) one (1) mixer, identified as Desulf Station #2, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed in 2001, exhausting at stack (S13).

(k) one (1) feeder, pug mill and briquette press, located on the small briquetting line (Plant 3), identified as Briquetting Line Pug Mill, both using a pulsing air baghouse as the control, constructed April 1987, exhausting at stack (S11).

(l) three (3) high calcium lime storage silos, identified as Lime Silo #1, Lime Silo #2, and Lime Silo #4), located on the bagging line, each with a maximum storage capacity of 30 tons, each using bin vents as the control, constructed April 1987, exhausting at stacks (S14), (S15) and (S16), respectively;

(m) one (1) dolo lime storage silo, identified as Lime Silo #3, located on the bagging line, with a maximum storage capacity of 30 tons, using bin vents as the control, constructed April 1987, exhausting at stack (S17).

(n) two (2) ford stations, identified as Ford Station #1 and Ford Station #2, using a pulsing air baghouse as the control. Ford Station #1 was constructed September 1980 and Ford Station #2 was constructed November 1989, respectively, both exhausting at stack (S9).

(o) One (1) mixing and bagging system with a maximum capacity of 21 tons of limestone, fluorspar or alumina and slag per hr, approved for construction in 2011, equipped with a baghouse to control particulates, exhausting outside the building, consisting of the following:

(1) One (1) front loader to transfer material into four (4) individual small bins, with maximum capacity of 21 tons/hr each.

(2) four (4) small bin conveyors to transfer material into main product conveyor, with maximum capacity of 21 tons/hr each.

(3) one (1) main product conveyor to bagging station equipped with hopper, maximum capacity of 21 tons/hr.

(4) one (1) automated bagging hopper to fill bags, maximum capacity of 21 tons/hr.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

(a) One (1) hopper (Bagging Line Hopper), located on the bagging line, with a maximum capacity of 4 tons per hour, constructed June 1981. [326 IAC 6.8-1-2(a)]

(b) One (1) mixer/scale (Bagging Line Mixer/Scale), located on the bagging line with a maximum capacity of 2.5 tons per batch, constructed June 1981. [326 IAC 6.8-1-2(a)]

(c) The following equipment related to manufacturing activities not resulting in the emission of Hazardous Air Pollutants (HAPs): brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour. [326 IAC 6.8-1-2(b)(3)]

One (1) natural gas-fired boiler, identified as B1, constructed 1978, with a maximum heat input capacity of 1.05 MMBtu/hr.

(e) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4][326 IAC 6-5]

(f) Two (2) 6,000 gallon molasses storage tanks.

(g) Equipment powered by diesel fuel fired or natural gas fired internal combustion engines of capacity equal to or less than five hundred thousand 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds two million (2,000,000) Btu/hour.

(h) Combustion source flame safety purging on startup.

(i) A petroleum fuel, other than gasoline, dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less.

(j) Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs less than twelve thousand (12,000) gallons.

(k) Vessels storing lubricating oils, hydraulic oils, machining oils and machining fluids.

(l) Filling drums, pails or other packaging containers with lubricating oils, waxes and greases.

(m) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

(n) Cleaners and solvents having a vapor pressure equal to or less than seven-tenths kilo Pascals (0.7 kPa)(5 millimeters of mercury (5 mm Hg) or one-tenth pound per square inch (0.1psi)) measured at twenty 20 degrees Centigrade (20^{o} C)(sixty-eight degrees Fahrenheit (68^{o} F)).

(o) Closed loop heating and cooling systems.

(p) Solvent recycling systems with batch capacity of less than or equal to one hundred (100) gallons.

(q) Replacement or repair of electrostatic precipitators, bags in baghouse and filters in other air filter equipment.

(r) Blowdown for any of the following: sight glass, compressors, boiler, pumps and cooling towers.

(s) Emergency gasoline generators not exceeding one hundred ten (110) horsepower.

(t) A laboratory as defined in 326 IAC 2-7-1(21)(D).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, F089-23324-00323, is issued for a fixed term of ten (10) 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, 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 2-8-6] [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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(1) it contains a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1), 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) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

(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 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.12 Emergency Provisions [326 IAC 2-8-12]

(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 except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-3(c)(6) 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 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) 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.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

(a) All terms and conditions of permits established prior to F089-23324-00323 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require a certification that

meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-8(a)]

(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 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(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 2-8-3. 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 2-8 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 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(d) 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.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) 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.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM) and greenhouse gases (GHGs), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period.

(4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(5) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

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 twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.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).

C.6 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

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

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

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

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

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

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

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

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

(h) Material processing facilities shall include the following:

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

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

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

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

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

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

(j) Material transfer limits shall be as follows:

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

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

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

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

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

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

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

C.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.

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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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.

Testing Requirements [326 IAC 2-8-4(3)]

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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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.

C.13 Continuous Compliance Plan Requirements [326 IAC 6.8-3-3]

In order to comply with 326 IAC 6.8-3-3 (formerly 326 IAC 6-1-10.1(I) a Continuous Compliance Plan (CCP) for the drying system, material storage handling, and the north and south bulk powder silos shall be maintained at the source=s property and include the following:

(a) a list of the processes and the facilities at the source;

(b) a list of the particulate matter control equipment associated with the drying system, material storage handling, and the north and south bulk powder silos;

(c) the process operating parameters critical to continuous compliance with the applicable PM-10 emission limits, including particulate matter control equipment operation and the maintenance requirements;

(d) the specific monitoring, recording, and record keeping procedures for process and control equipment for each facility specified in (a) and (b); and

(e) the procedure used to assure that the adequate exhaust ventilation is maintained through each duct at facilities where emissions are captured by a collection hood and transported to a control device.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [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 2-8-4] [326 IAC 2-8-5]

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 2-8-4][326 IAC 2-8-5]

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(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.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

C.19 Continuous Compliance Plan [326 IAC 6.8-8-6]

Pursuant to 326 IAC 6.8-8-6 (Plan; particulate matter control equipment; operation and maintenance (formerly 326 IAC 6-1-10.1(l)) the CCP shall provide that the following control equipment related information and be available for inspection by OAQ personnel:

(a) startup, shutdown, and emergency procedures;

(b) sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made;

(c) manufacturer=s recommended inspection procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If the manufacturer=s recommendations are not available, procedures shall be determined by the source;

(d) contents of the operator=s training program and the frequency with which the training is held;

(e) a list of spare parts available at the facility;

(f) a list of control equipment safety devices; and

(g) monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters.

Particulate matter control equipment operation, recording, and inspection procedure requirements shall meet the requirements 326 IAC 6.8-8-7(1) (formerly 326 IAC 6-1-

Stratospheric Ozone Protection

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-8-4(10)]

(a) one (1) natural gas fired dryer and a cyclone dust collection system, identified as unit A, rated at 25 million British thermal units (Btu) per hour, with a maximum production capacity of 20 tons per hour, constructed November 1978 and relined in 2007, using a jetpulse baghouse system as the control installed in June 2007, exhausting to stack (S5) (Plants 1 & 2).

(b) one (1) raw material use silo, identified as Silo #1, with a maximum capacity of 60 tons, particulate dust from the baghouse and cyclone are sent to the storage silo by bucket elevator, constructed April 1987, exhausting to stack (S5) (Plants 1& 2).

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter (PM-10) [326 IAC 6.8-2-2] [326 IAC 2-2] [326 IAC 2-8]

Pursuant to 326 IAC 6.8-2-25 (Lake County: PM-10 and total suspended particulate emissions):

(a) The PM-10 emissions from the dryer, (Unit A), shall not exceed 4.060 pounds per hour and 0.203 pounds per ton of material processed.

(b) The PM-10 emissions from the raw material use (Silo #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM-10 emissions of the other units at the source will limit the source wide PM10 emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

D.1.2 Particulate Matter (PM) [326 IAC 2-2]

(a) The PM emissions from the dryer, (Unit A), shall not exceed 4.060 pounds per hour and 0.203 pounds per ton of material processed.

(b) The PM emissions from the raw material use silo (Silo #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM emissions of the other units at the source will limit the source wide PM emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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.1.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

The Permittee shall perform PM and PM 10 testing of the dryer (Unit A) utilizing methods as approved by the Commissioner in order to demonstrate compliance with D.1.1.

Pursuant to 326 IAC 2-8-5(A)(1),(4), the Permittee shall repeat the stack test at least once every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C-Performance Testing.

D.1.5 Particulate Control

In order to comply with D.1.1 the baghouse for particulate control shall be in operation and control emissions from the dryer at all times that these facilities are in operation.

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.1.6 Visible Emissions Notations

(a) Visible emission notations of the drying system exhaust vent shall be performed during normal daylight operations when the associated facilities are in operation. 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.1.7 Parametric Monitoring

The Permittee shall record the differential pressure across the baghouse used in conjunction with the drying system, at least once per day when the drying system is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a violation of this permit.

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

D.1.8 Broken or Failed Bag Detection

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

(b) For single compartment baghouses 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 emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B- Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse 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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the drying system exhaust vent. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) To document the compliance status with Condition D.1.7, the Permittee shall maintain daily records of the pressure drop across the baghouse. The Permittee shall include in its daily record when the pressure drop across the baghouse is not taken and the reason for the pressure drop was not taken (e.g. the process did not operate that day).

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-8-4(10)]

(c) one (1) north bulk powder blue silo, identified as Silo #2, with a maximum production capacity of 0.525 tons per hour, using bin vents as the control, constructed May 1973, exhausting to stack (S1)(Plant 2).

(d) one (1) south bulk powder blue silo, identified as Silo #3, with a maximum production capacity of 0.35 tons per hour, using bin vents as the control, constructed May 1973, exhausting to stack (S2) (Plant 2).

(e) one (1) mixer and bucket elevator, identified as Briquetting Line #1, with a capacity of 15 tons per hour, using a reverse air baghouse dust collection system (S8) as the control, constructed April 1987, exhausting to the atmosphere; and one (1) hopper, one (1) shaker, one (1) pug mill, one (1) bucket elevator, and one (1) briquetter, with no control equipment, each with a maximum capacity of 15 tons per hour, each located on the large briquetting line (Plants 1& 2), constructed April 1987.

(f) one (1) storage/processing tank, identified as Tank #1, located on the large briquetting line (Plants 1& 2), with a maximum storage capacity of 30 tons, controlled by bin vents as the control, constructed April 1987, exhausting at stack (S6).

(g) one (1) storage/processing tank, identified as Tank #2, located on the large briquetting line (Plants 1& 2), with a maximum storage capacity of 20 tons, using bin vents as the control, constructed April 1987, exhausting at stack (S7).

(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 2-8-4(1)]

D.2.1 Particulate Matter (PM-10) [326 IAC 6.8-2-2] [326 IAC 2-2] [326 IAC 2-8]

Pursuant to 326 IAC 6.8-2-25 (Lake County: PM-10 and total suspended particulate emissions):

(a) The PM-10 emissions from the north bulk powder blue silo (Silo #2) shall not exceed 0.012 pounds per hour and 0.001 pounds per ton of material processed.

(b) The PM-10 emissions from the south bulk powder blue silo (Silo #3) shall not exceed 0.012 pounds per hour and 0.001 pounds per ton of material processed.

(c) The PM-10 emissions from the mixer and bucket elevator (Briquetting Line #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(d) The PM-10 emissions from the storage/processing tank (Tank #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(e) The PM-10 emissions from the storage/processing tank (Tank #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM-10 emissions of the other units at the source will limit the source wide PM10 emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

D.2.2 Particulate Matter (PM) [326 IAC 2-2]

(a) The PM emissions from the north bulk powder blue silo (Silo #2) shall not exceed 0.012 pounds per hour and 0.001 pounds per ton of material processed.

(b) The PM emissions from the south bulk powder blue silo (Silo #3) shall not exceed 0.012 pounds per hour and 0.001 pounds per ton of material processed.

(c) The PM emissions from the mixer and bucket elevator (Briquetting Line #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(d) The PM emissions from the storage/processing tank (Tank #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(e) The PM emissions from the storage/processing tank (Tank #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM emissions of the other units at the source will limit the source wide PM emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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 Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.4 Particulate Control

(a) In order to comply with D.2.1and D.2.2 the baghouses for particulate control shall be in operation and control emissions from the mixer and the bucket elevator at all times that these facilities are in operation.

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.

(b) In order to comply with D.2.1and D.2.2 the bin vents for particulate control shall be in operation and control emissions from the north and south bulk blue powder silos and the storage/processing tanks at all times that these facilities are in operation.

D.2.5 Visible Emissions Notations

(a) Daily visible emission notations of the mixer and bucket elevator stack exhaust

shall be performed during normal daylight operations when the associated facilities are in operation exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the north and south bulk powder silos (S1 & S2) and storage/processing tanks (S6 & S7) stack exhausts shall be performed during normal daylight operations when the associated facilities are being filled. A trained employee shall record whether emissions are normal or abnormal.

(c) 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.

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

(e) 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.

(f) 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.2.6 Parametric Monitoring

The Permittee shall record the differential pressure across the baghouse used in conjunction with the mixer and bucket elevator in Plants 1 and 2, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a violation of this permit.

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

D.2.7 Broken or Failed Bag Detection

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

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B- Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse 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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.8 Record Keeping Requirements

(a) To document the compliance status with Condition D.2.4, the Permittee shall maintain records of the daily visible emission notations of the mixer and bucket elevator in Plants 1 and 2 stack exhausts and the storage/processing tanks. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) To document the compliance status with Condition D.2.6, the Permittee shall maintain daily records of the pressure drop across the baghouse. The Permittee shall include in its daily record when the pressure drop across the baghouse is not taken and the reason for the pressure drop was not taken (e.g. the process did not operate that day).

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

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-8-4(10)]

(h) one (1) bulk powder storage silo, identified as Portland Cement Silo #3, located on the small briquetting line (Plant 3), with a maximum storage capacity of 60 tons, using a jetpulse baghouse dust collection system as the control, constructed April 1987, exhausting at stack (S3).

(i) one (1) mixer, identified as Desulf Station #1, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed June 1982, exhausting at stack (S12).

(j) one (1) mixer, identified as Desulf Station #2, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed in 2001, exhausting at stack (S13).

(k) one (1) feeder, pug mill and briquette press, located on the small briquetting line (Plant 3), identified as Briquetting Line Pug Mill, both using a pulsing air baghouse as the control, constructed in April 1987, exhausting at stack (S11).

(l) three (3) high calcium lime storage silos, identified as Lime Silo #1, Lime Silo #2, and Lime Silo #4, located on the bagging line, each with a maximum storage capacity of 30 tons, each using bin vents as the control, constructed April 1987, exhausting at stacks (S14), (S15), and (S16), respectively;

(m) one (1) dolo lime storage silo, identified as Lime Silo #3, located on the bagging line, with a maximum storage capacity of 30 tons per hour, using vin bents as the control, constructed April 1987, exhausting at stack (S17).

(n) two (2) ford stations, identified as Ford Station #1 and Ford Station #2, using a pulsing air baghouse as the control, Ford Station #1 was constructed September 1980 and Ford Station #2 was constructed November 1989, respectively, both exhausting at stack (S9).

(o) one (1) mixing and bagging system with a maximum capacity of 21 tons/hr, approved for construction in 2011, equipped with a baghouse to control particulates, exhausting outside the building with following emission units:

(1) one (1) front loaders to transfer material into four (4) individual small bin conveyors, maximum capacity of 21 tons/hr each.

(2) four (4) small bin conveyors to transfer material into main conveyor, maximum capacity of 21 tons/hr each.

(3) one (1) main conveyor to load bagging hopper, maximum capacity of 21

(4) one (1) bagging hopper to fill bags, maximum capacity of 21 tons/yr.

(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 2-8-4(1)]

D.3.1 Particulate Matter (PM-10) [326 IAC 6.8-2-2] [326 IAC 2-2] [326 IAC 2-8]

Pursuant to 326 IAC 6.8-2-25 (Lake County: PM-10 and total suspended particulate emissions):

(a) The PM-10 emissions from the bulk powder storage silo (Portland Cement Silo #3) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(b) The PM-10 emissions from the mixer (Desulf Station #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(c) The PM-10 emissions from the mixer (Desulf Station #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(d) The PM-10 emissions from the feeder, pug mill and briquette press, (Briquetting Line Pug Mill) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(e) The PM-10 emissions from the high calcium lime storage silos (Lime Silo #1, Lime Silo #2, and Lime Silo #4) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(f) The PM-10 emissions from the dolo lime storage silo (Lime Silo #3) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(g) The PM-10 emissions from the ford stations (Ford Station #1 and Ford Station #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM-10 emissions of the other units at the source will limit the source wide PM10 emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

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

(a) The PM emissions from the bulk powder storage silo (Portland Cement Silo #3) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(b) The PM emissions from the mixer (Desulf Station #1) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(c) The PM emissions from the mixer (Desulf Station #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(d) The PM emissions from the feeder, pug mill and briquette press, (Briquetting Line Pug Mill) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(e) The PM emissions from the high calcium lime storage silos (Lime Silo #1, Lime Silo #2, and Lime Silo #4) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

(f) The PM emissions from the dolo lime storage silo (Lime Silo #3) shall not exceed

0.68 pounds per hour and 0.034 pounds per ton of material processed.

(g) The PM emissions from the ford stations (Ford Station #1 and Ford Station #2) shall not exceed 0.68 pounds per hour and 0.034 pounds per ton of material processed.

Compliance with these limits, in combination with the PM emissions of the other units at the source will limit the source wide PM emissions to less than 100 tons per year. Compliance with this limit shall satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration)(PSD) not applicable.

D.3.3 326 IAC 6.8-1-2 (Particulate Emission Limitations)

Pursuant to 326 IAC 6.8-1-2(a) particulate emissions from the mixer, bin conveyors, and the bagging hopper shall not exceed 0.03 grains per dry standard cubic foot (dscf).

D.3.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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.

D.3.5 Particulate Control

(a) In order to comply with Condition D.3.1, the baghouses for particulate control shall be in operation and control emissions from the ford stations, the feeder, pug mill and briquette press, and the two (2) mixers (desulf stations #1 and #2) at all times that the associated facilities are in operation.

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.

(b) In order to comply with Condition D.3.1, the bin vents for particulate control shall be in operation and control emissions from the four (4) lime storage silos, at all times that the associated facilities are in operation.

D.3.6 Visible Emissions Notations

(a) Visible emission notations of the ford stations, the feeder, pug mill and briquette press, and the two (2) mixers (desulf stations #1 and #2) exhaust vents, shall be performed during normal daylight operations when the associated facilities are in operation. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the four (4) lime storage silos and the bulk powder storage silo (S3) exhaust vents shall be performed during normal daylight operations when the associated facilities are being filled. A trained employee shall record whether emissions are normal or abnormal.

(c) Visible emission notations of the mixing and bagging system exhaust vent shall be performed during normal daylight operations when the associated facilities are in operation. A trained employee shall record whether emissions are normal or abnormal.

(d) 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.

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

(f) 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.

(g) 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.3.7 Parametric Monitoring

The Permittee shall record the differential pressure across the baghouses used in conjunction with the ford stations (S9), the feeder, pug mill and briquette press (S11), the two (2) mixers (desulf stations #1 and #2)(S12 and S13) and mixing and bagging system at least once per day when the processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a violation of this permit.

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

D.3.8 Broken or Failed Bag Detection

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

(b) For single compartment baghouses 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 emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B- Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse 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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.9 Record Keeping Requirements

(a) To document the compliance status with Condition D.3.5, the Permittee shall maintain records of daily visible emission notations of the four (4) lime storage silos, the ford station, the feeder, pug mill and briquette press, and two (2) mixers (desulf stations #1 and #2), and mixing and bagging system exhaust vents. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) To document the compliance status with Condition D.3.6, the Permittee shall maintain daily records of the pressure drop across the baghouse. The Permittee shall include in its daily record when the pressure drop across the baghouse is not taken and the reason for the pressure drop was not taken (e.g. the process did not operate that day).

(c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regards to the reporting required by this condition.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-8-4(10)]

(a) One (1) hopper, (Bagging Line Hopper) located on the bagging line, with a maximum capacity of 4 tons per hour, constructed June 1981. [326 IAC 6.8-1-2(a)]

(b) One (1) mixer/scale, (Bagging Line Mixer/Scale) located on the bagging line with a maximum capacity of 2.5 tons per batch, constructed June 1981. [326 IAC 6.8-1-2(a)]

(c) The following equipment related to manufacturing activities not resulting in the emission of Hazardous Air Pollutants (HAPs): brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(d) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour. [326 IAC 6.8-1-2(b)(3)]

One (1) natural gas-fired boiler, identified as B1, constructed 1978, with a maximum heat input capacity of 1.05 MMBtu/hr.

(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 2-8-4(1)]

D.4.1 Particulate Matter Limitations for Lake County [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2(a) particulate emissions from the hopper and from the mixer/scale shall not exceed 0.03 grains per dry standard cubic foot (dscf).

D.4.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e), the allowable particulate matter emission rate from the following: brazing equipment, cutting torches, soldering equipment, welding equipment with maximum process weight rates less than 100 pounds per hour shall not exceed 0.551 pounds per hour:

D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2(b)(3) the particulate matter emissions from boiler B1 shall not exceed 0.01 grains per dry standard cubic foot when combusting natural gas.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Harsco Minerals Briquetting LLC
Source Address: 5222 Indianapolis Boulevard, East Chicago, Indiana 46312
FESOP Permit No.: F089-30936-00323

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:

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

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Harsco Minerals Briquetting LLC
Source Address: 5222 Indianapolis Boulevard, East Chicago, Indiana 46312
FESOP Permit No.: F089-30936-00323

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 Describe:
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
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Harsco Minerals Briquetting LLC
Source Address: 5222 Indianapolis Boulevard, East Chicago, Indiana 46312
FESOP Permit No.: F089-30936-00323

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

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

□ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

□ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed by:________________________________

Title / Position:____________________________________

Date:____

Phone: ____

ATTACHMENT A

BRIQUETTE PLANT SITE FUGITIVE DUST CONTROL PLAN

(a) Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by the following method:
Paved roads and parking lots:
(1) using an automatic sweeper.

Unpaved roads and parking lots:
(1) applying water on an as needed basis.

(b) Fugitive particulate matter emissions from storage piles shall be controlled by one or more of the following methods on an as needed basis:
(1) using tarps;
(2) treating the stockpiles with water.

(c) Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by the following method:
(1) sealing trucks that enter the plant until they begin to unload at the facility.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Permit Revision to a Federally Enforceable Source Operating Permit (FESOP)

Source Description and Location

Source Name:	**Harsco Minerals Briquetting LLC**
Source Location:	**5222 Indianapolis Boulevard, East Chicago, Indiana 46312**
County:	**Lake**
SIC Code:	**3399 (Primary Metal Products, Not Elsewhere Classified)**
Operation Permit No.:	**F089-23324-00323**
Minor Permit Revision No.:	**089-30936-00323**
Permit Reviewer:	**Swarna Prabha**

On September 19, 2011, the Office of Air Quality (OAQ) received an application from Harsco Minerals Briquetting LLC, formerly known as National Briquette Corporation, related to a modification to an existing stationary briquette manufacturing plant.

Existing Approvals

The source was issued FEOP Renewal No. 089-30936-00323 on June 3, 2008. The source has since received Administrative Amendment No. 089-30936-00323, issued on July 2, 2008.

County Attainment Status

The source is located in Lake County.

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

[1]The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Lake County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3.

Basic nonattainment designation effective federally April 5, 2005, for PM2.5.

(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. Lake 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 Lake County as nonattainment for $PM_{2.5}$. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for $PM_{2.5}$ promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants
Lake County has been classified as attainment or unclassifiable in Indiana for PM10, NOx, SO2, CO and lead criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

(b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Intentionally left blank.... continued on next page....

Status of the Existing Source

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

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)						
Emission Units	PM	PM10	SO2	VOC	CO	NOx	Total HAPs
Dryer	5.62	5.62	0.01	0.06	0.92	1.10	2.30E-05
Raw Material Use Silo #1	0.83	0.83	0.00	0.00	0.00	0.00	0.00
North Bulk Powder Silo#2	0.06	0.06	0.00	0.00	0.00	0.00	0.00
South Bulk Powder Silo #3	0.06	0.06	0.00	0.00	0.00	0.00	0.00
Mixer & Bucket Elevator Briquette Line #1	1.07	1.07	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #1	0.83	0.83	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #2	0.83	0.83	0.00	0.00	0.00	0.00	0.00
Portland Cement Storage Silo #3	0.83	0.83	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #1	1.07	1.07	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #2	1.07	1.07	0.00	0.00	0.00	0.00	0.00
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	6.94	6.94	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #1	0.83	0.83	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #2	0.83	0.83	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #4	0.83	0.83	0.00	0.00	0.00	0.00	0.00
Dolo Lime Storage Silo #3	0.83	0.83	0.00	0.00	0.00	0.00	0.00
Ford Station #1 and Ford Station #2	2.14	2.14	0.00	0.00	0.00	0.00	0.00
Boiler	0.01	0.03	0.00	0.03	0.39	0.46	0.00
Conveying/Handling	0.09	0.05	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	17.98	4.6	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.0033	0.001	0.00	0.00	0.00	0.00	0.00
Mixing Towers (1 & 2)	0.98	0.30	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	43.72	43.72	0.01	0.06	0.92	1.56	negl.
Title V Major Source Thresholds	N/A	100	100	100	100	100	25
PSD Major Source Thresholds	250	250	250	250	250	250	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	N/A	N/A	N/A	N/A	N/A	N/A	NA

negl. = negligible
These emissions are based upon the permit No. 089-23324-00323 issued on June 03, 2008.

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is not a major stationary source under Emission Offset (326 IAC 2-3), because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.

(c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the unlimited potential to emit HAPs are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Harsco Minerals Briquetting LLC on September 19, 2011, relating to the construction and operation of a new mixing and bagging system, equipped with a baghouse to control particulates.

The following is a list of the new emission unit and pollution control device:

(a) One (1) mixing and bagging system with a maximum capacity of 21 tons of limestone, fluorspar or alumina and slag per hr, approved for construction in 2011, equipped with a baghouse to control particulates, exhausting outside the building, consisting of the following:

(1) One (1) front loader to transfer material into four (4) individual small bins, with maximum capacity of 21 tons/hr each.

(2) four (4) small bin conveyors to transfer material into main product conveyor, with maximum capacity of 21 tons/hr each.

(3) one (1) main product conveyor to bagging station equipped with hopper, maximum capacity of 21 tons/hr.

(4) one (1) automated bagging hopper to fill bags, maximum capacity of 21 tons/hr.

NOTE: The material used is limestone, fluorspar or alumina and slag. These are existing ingredients that are already used at this source.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)									
	PM	PM10*	PM2.5	SO_2	NOx	VOC	CO	**GHGs as CO2e	Total HAPs	Worst Single HAP
Dryer	***	***	***	***	***	***	***	13,219.97	***	***.
Boiler	***	***	***	***	***	***	***	555.36	***	***
mixing and bagging system	7.37	2.18	2.18	0	0	0	0	0	0	0
Total PTE of Proposed Revision	7.37	2.18	2.18	0	0	0	0	13,775.33	0	0

negl. = negligible
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
** Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO2e per year (see ATSD Appendix A for detailed calculations). This did not require any changes to the permit.
*** Not applicable to this revision, PTE are shown in the next table **"PTE of the Entire Source After Issuance of the FESOP Revision"**

This FESOP is being revised through FESOP Minor Permit Revision pursuant to 326 IAC 2-8-11.1(d), the uncontrolled potential to emit PM of this revision is greater than 5 tons per year and less than 25 tons/yr.

Intentionally left blank.... continued on next page....

PTE of the Entire Source After Issuance of the FESOP Revision

The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source to accomodate the Proposed Revision (tons/year)								
Emission Units	PM	*PM10	**PM2.5	SO2	VOC	CO	***GHGs as CO2e	NOx	Total HAPs
****Dryer	5.62	5.62	**5.62**	~~0.01~~ **0.20**	~~0.06~~ **0.66**	~~0.92~~ **9.20**	**13,219.97**	~~1.10~~ **11.0**	2.30E-05
Raw Material Use Silo #1	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
North Bulk Powder Silo#2	0.06	0.06	**0.06**	0.00	0.00	0.00	0.00	0.00	0.00
South Bulk Powder Silo #3	0.06	0.06	**0.06**	0.00	0.00	0.00	0.00	0.00	0.00
Mixer & Bucket Elevator Briquette Line #1	1.07	1.07	**1.07**	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #1	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #2	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
Portland Cement Storage Silo #3	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #1	1.07	1.07	**1.07**	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #2	1.07	1.07	**1.07**	0.00	0.00	0.00	0.00	0.00	0.00
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	6.94	6.94	**6.94**	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #1	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #2	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #4	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
Dolo Lime Storage Silo #3	0.83	0.83	**0.83**	0.00	0.00	0.00	0.00	0.00	0.00
Ford Station #1 and Ford Station #2	2.14	2.14	**2.14**	0.00	0.00	0.00	0.00	0.00	0.00
Boiler	0.01	0.03	**0.03**	0.00	0.03	0.39	**555.36**	0.46	negl.
Conveying/Handling	0.09	0.05	**0.05**	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	17.98	4.6	**4.6**	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.0033	0.001	**0.001**	0.00	0.00	0.00	0.00	0.00	0.00
Mixing Towers (1 & 2)	0.98	0.30	**0.30**	0.00	0.00	0.00	0.00	0.00	0.00
mixing and bagging system	**7.37**	**2.18**	**2.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total PTE of Entire Source	~~43.72~~ **51.10**	~~43.72~~ **29.76**	**29.76**	~~0.01~~ **0.30**	~~0.06~~ **0.69**	~~0.92~~ **9.59**	**13,775.3**	~~1.56~~ **11.0**	negl.
Title V Major Source Thresholds	N/A	100	100	100	100	100	100,000	100	25
PSD Major Source Thresholds	250	250	N/A	250	250	250	100,000	250	N/A
Emission Offset/ Nonattainment NSR Major Source Thresholds	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A

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

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

**** Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO2e per year (see ATSD Appendix A for detailed calculations). This did not require any changes to the permit.*

***** the combustion emissions from the dryer were inadvertently left out in the Permit # 089-23324-00323 for VOC, NOx and CO and SO2, issued on June 03, 2008. They are included in the total PTE through this modification.*

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

Process/ Emission Unit	**Potential To Emit of the Entire Source after the Revision (tons/year)**								
Emission Units	PM	*PM10	**PM2.5	SO2	VOC	CO	***GHGs as CO2e	NOx	Worst Single HAPs
Dryer	5.62	5.62	5.62	0.20	0.66	9.20	13,219.97	11.0	negl.
Raw Material Use Silo #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
North Bulk Powder Silo#2	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
South Bulk Powder Silo #3	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Mixer & Bucket Elevator Briquette Line #1	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #2	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Portland Cement Storage Silo #3	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #1	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #2	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	6.94	6.94	6.94	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #2	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #4	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Dolo Lime Storage Silo #3	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Ford Station #1 and Ford Station #2	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00
Boiler	0.01	0.03	0.03	0.00	0.03	0.39	555.36	0.46	negl.
Conveying/Handling	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	17.98	4.6	4.6	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.0033	0.001	0.001	0.00	0.00	0.00	0.00	0.00	0.00
Mixing Towers (1 & 2)	0.98	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00
mixing and bagging system	7.37	2.18	2.18	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	51.10	29.76	29.76	0.30	0.69	9.59	13775.3	11.0	negl.
Title V Major Source Thresholds	N/A	100	100	100	100	100	100,000	100	25
PSD Major Source Thresholds	250	250	N/A	250	250	250	100,000	N/A	N/A
Emission Offset/ Nonattainment NSR Major Source Thresholds	N/A	N/A	100	N/A	N/A	N/A	N/A	N/A	N/A

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

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

**** Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the*

calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO2e per year (see ATSD Appendix A for detailed calculations). This did not require any changes to the permit.

(a) FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

(b) PSD Minor Source
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(c) Emission Offset Minor Source
This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of all nonattainment regulated pollutants from the entire source will continue to be less than the Emission Offset major source threshold levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

(c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the unlimited potential to emit of the source is less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

326 IAC 2-8-4 (Federally Enforceable Source Operating Permits (FESOP))
FESOP applicability is discussed under the Permit Level Determination – FESOP section above.

326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the PM potential to emit from the entire source will be limited to be less than 250 tons per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

326 IAC 2-3 (Emission Offset)

This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of all nonattainment regulated pollutants from the entire source will continue to be less than the Emission Offset major source threshold levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

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

This existing source is not a major stationary source, under 326 IAC 2-1.1-5 (Nonattainment New Source Review), because the potential to emit particulate matter with a diameter less than two and five tenths (2.5) micrometers (PM2.5), is limited to less than one hundred (100) tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the entire, is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

326 IAC 2-6 (Emission Reporting)

This source is located in Lake County which is one of the specifically regulated counties, but it has the potential to emit NOx and VOC less than ten (10) tons per year each and potential to emit PM-10, SO_2 and CO are less than one hundred (100) tons per year each. Therefore, the requirements of 326 IAC 2-6 do not apply to this source.

326 IAC 1-5-2 (Emergency Reduction Plans)

The potential to emit is greater than 100 tons of PM and PM 10 but the source agreed to limit the PM and PM 10 to less than 100 tons per twelve (12) consecutive month period. Therefore, the requirements do not apply to this source.

326 IAC 5-1 (Opacity Limitations)

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

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

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

326 IAC 6-5 (Particulate Matter Limitations Except Lake County)

This source is not subject to 326 IAC 6-5 Particulate Matter Limitations Except Lake County because the source is located in Lake County which is exempt under 326 IAC 6-5-1(a), but is subject to 326 IAC 6-5-1(b) because they constructed after 1985. The source submitted their Fugitive Dust Plan on January 22, 1996.

326 IAC 8-7 (Specific VOC Reductions for Lake, Porter, Clark and Floyd Counties)

This source is not subject to 326 IAC 8-7 Specific VOC Reductions for Lake, Porter, Clark

and Floyd Counties because the source has a potential to emit of VOC less than twenty-five (25) tons per year. Therefore, the requirements of this rule were not included in this permit.

Mixing and Bagging System

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

This modification is subject to 326 IAC 6.8-10-1 (Lake County: Fugitive Particulate Matter) because the source is located in Lake County and although National Briquette Corporation located in East Chicago, is not specifically identified in 326 IAC 6.8-10-1(2) and the facilities have the potential to emit five (5) tons per year of fugitive particulate matter.

326 IAC 6.8-10-3 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the fugitive particulate emissions will exceed 5 tons per year and this source will have material transfer operations, storage piles, and paved/unpaved roads, this source will be subject to the requirements of 326 IAC 6.8-10.

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

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

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

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

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

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

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

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

(i) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

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

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

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on January 22, 1996. The plan is included as Attachment A.

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

Pursuant to 326 IAC 6.8-1-2(a) particulate emissions from the mixer, bin conveyors, and the bagging hopper shall not exceed 0.03 grains per dry standard cubic foot (dscf).

Compliance Determination, Monitoring and Testing Requirements

(a) The compliance determination and monitoring requirements applicable to this proposed revision are as follows:

Unit/ Control	Parameter	Frequency	Range	Excursions and Exceedances
mixing and bagging system	Water Pressure Drop	Daily	1.5 to 5 inches	Response Steps
	Visible emission notation	Daily	normal/abnormal	Response Steps

These monitoring conditions are necessary because the baghouse for the mixing system, must operate properly to ensure compliance with 326 IAC 6.8-2-2 (Lake County: PM-10 and PM particulate emissions) and 326 IAC 2-8 (FESOP).

Proposed Changes

(a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

(1) The emission unit description in Sections A.2 and D.3 have been revised to incorporate the new emission unit.

(2) Section D.3 - Visible Emissions has been included in the revision since the source now must perform visible emission notations to determine compliance with the no visible emission limit for baghouse.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

...

(n) two (2) ford stations, identified as Ford Station #1 and Ford Station #2, using a pulsing air baghouse as the control. Ford Station #1 was constructed September 1980 and Ford Station #2 was constructed November 1989, respectively, both exhausting at stack (S9).

(o) One (1) mixing and bagging system with a maximum capacity of 21 tons of limestone, fluorspar or alumina and slag per hr, approved for construction in 2011, equipped with a baghouse to control particulates, exhausting outside the building, consisting of the following:

(1) One (1) front loader to transfer material into four (4) individual small bins, with maximum capacity of 21 tons/hr each.

(2) four (4) small bin conveyors to transfer material into main product conveyor, with maximum capacity of 21 tons/hr each.

(3) one (1) main product conveyor to bagging station equipped with hopper, maximum capacity of 21 tons/hr.

(4) one (1) automated bagging hopper to fill bags, maximum capacity of 21 tons/hr.

...

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: [326 IAC 2-8-4(10)]

(h) one (1) bulk powder storage silo, identified as Portland Cement Silo #3, located on the small briquetting line (Plant 3), with a maximum storage capacity of 60 tons, using a jetpulse baghouse dust collection system as the control, constructed April 1987, exhausting at stack (S3).

(i) one (1) mixer, identified as Desulf Station #1, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed June 1982, exhausting at stack (S12).

(j) one (1) mixer, identified as Desulf Station #2, located on the bagging line, with a maximum production capacity of 15 tons per hour, using a pulsing air baghouse as the control, constructed in 2001, exhausting at stack (S13).

(k) one (1) feeder, pug mill and briquette press, located on the small briquetting line (Plant 3), identified as Briquetting Line Pug Mill, both using a pulsing air baghouse as the control, constructed in April 1987, exhausting at stack (S11).

(l) three (3) high calcium lime storage silos, identified as Lime Silo #1, Lime Silo #2, and Lime Silo #4, located on the bagging line, each with a maximum storage capacity of 30 tons, each using bin vents as the control, constructed April 1987, exhausting at stacks (S14), (S15), and (S16), respectively;

(m) one (1) dolo lime storage silo, identified as Lime Silo #3, located on the bagging line, with a maximum storage capacity of 30 tons per hour, using vin bents as the control, constructed April 1987, exhausting at stack (S17).

(n) two (2) ford stations, identified as Ford Station #1 and Ford Station #2, using a pulsing air baghouse as the control, Ford Station #1 was constructed September 1980 and Ford Station #2 was constructed November 1989, respectively, both exhausting at stack (S9).

(o) One (1) mixing and bagging system with a maximum capacity of 21 tons of limestone, fluorspar or alumina and slag per hr, approved for construction in 2011, equipped with a baghouse to control particulates, exhausting outside the building, consisting of the following:

(1) One (1) front loader to transfer material into four (4) individual small bins, with maximum capacity of 21 tons/hr each.

(2) four (4) small bin conveyors to transfer material into main product conveyor, with maximum capacity of 21 tons/hr each.

(3) one (1) main product conveyor to bagging station equipped with hopper, maximum capacity of 21 tons/hr.

(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 2-8-4(1)]

...

D.3.3 Particulate Emission Limitations [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) particulate emissions from the mixer, bin conveyors, and the bagging hopper shall not exceed 0.03 grains per dry standard cubic foot (dscf).

D.3.~~3~~ **4** Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.3.~~4~~**5** Particulate Control

...

D.3.~~5~~**6** Visible Emissions Notations

(a) ~~Daily v~~**V**isible emission notations of the ford stations, the feeder, pug mill and briquette press, and the two (2) mixers (desulf stations #1 and #2) exhaust vents, shall be performed during normal daylight operations when the associated facilities are in operation. A trained employee shall record whether emissions are normal or abnormal.

(b) Visible emission notations of the four (4) lime storage silos and the bulk powder storage silo (S3) exhaust vents shall be performed during normal daylight operations when the associated facilities are being filled. A trained employee shall record whether emissions are normal or abnormal.

(c) Visible emission notations of the mixing and bagging system exhaust vents, shall be performed during normal daylight operations when the associated facilities are in operation. A trained employee shall record whether emissions are normal or abnormal.

(~~c~~**d**) 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.

(~~d~~**e**) In the case of batch or noncontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(~~e~~**f**) 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.

(~~f~~**g**) 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.3.~~6~~ **7** Parametric Monitoring

The Permittee shall record the differential pressure across the baghouses used in conjunction with the ford stations (S9), the feeder, pug mill and briquette press (S11), ~~and~~ the two (2) mixers (desulf stations #1 and #2)(S12 and S13) **and mixing and bagging system** at least once per day

...

D.3.~~7~~ **8** Broken or Failed Bag Detection

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.3.~~8~~**9** Record Keeping Requirements

(a) To document the compliance status with Condition D.3.5, the Permittee shall maintain records of daily visible emission notations of the four (4) lime storage silos, the ford station, the feeder, pug mill and briquette press, and two (2) mixers (desulf stations #1 and #2)**, and mixing and bagging system** exhaust vents. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

...

Upon further review, IDEM, OAQ has decided to make the following changes to the permit as described below in order to update the langauge to match most current version of the applicable rule, to eliminate redundancy within the permit and to provide clarification regarding the requirements of these conditions.

(1) Section A.1 of the permit and the reporting forms have been revised to remove all references to the source mailing address. IDEM, OAQ will continue to maintain records of the mailing address.

(2) For clarity, IDEM has changed references to the general conditions: “in accordance with Section B”, in accordance with Section C”, or other similar language to "Section C...contains the Permittee’s obligations with regard to the records required by this condition.”

(3) IDEM has decided that the phrases “no later than” and “not later than” are clearer than “within” in relation to the end of a timeline. Therefore all timelines have been switched to “no later than” or “not later than” except when the underlying rule states “within.”

(4) IDEM has decided to clarify throughout the permit that a certification needs to meet the requirements of 326 IAC 2-8-5(a)(1). In addition, IDEM has decided to remove the last sentence dealing with the need for certification from the forms because the conditions requiring the forms already addresses this issue.

(5) IDEM has decided to clarify the certification requirements in Section B - Duty to Provide Information and Section B - Certification.

(6) IDEM has decided to clarify the requirements of Section B – Preventive Maintenance Plan and to add a new paragraph (b) to handle a future situation where the Permittee adds units that need preventive maintenance plans.

(7) IDEM has revised the language of the Section B - Preventive Maintenance Plan, Section C - Compliance Monitoring, Section C - General Record Keeping, and Section C - General Reporting to allow the Permittee to not have to begin implementing the requirements of these conditions until ninety days after initial start up.

(8) IDEM has revised Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-8-4(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.

(9) IDEM has decided that having a separate condition for the reporting of deviations is unnecessary. Therefore, IDEM has removed Section B - Deviations from Permit Requirements and Conditions and added the requirements of that condition to Section C -

General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM already states the timeline and certification needs of each report in the condition requiring the report.

(10) IDEM has revised Section B - Permit Renewal paragraph (c) to state which rule establishes the authority to set a deadline for the Permittee to submit additional information.

(11) IDEM has decided to reference 326 IAC 2 in Section B - Source Modification Requirements, rather than specific construction rule.

(12) IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.

(13) IDEM has removed Section C - Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour (326 IAC 6-3-2) because this source is subject to the requirements of Particulate Matter Limitations Except Lake County (326 IAC 6.5-1-2).

(14) Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO2e per year (see attached calculations). IDEM has revised Section C - Overall Source Limit to reflect this new requirement.

(15) IDEM has revised Section C - Incineration to more closely reflect the two underlying rules.

(16) IDEM has revised the language of the Section C - Asbestos Abatement Projects to change the terminology "Accredited" to "Licensed" in order to match the rule.

(17) IDEM has removed the first paragraph of Section C - Performance Testing as because specific testing conditions elsewhere in the permit will specify the timeline and procedures.

(18) IDEM has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed because other conditions already address recordkeeping. The voice of the condition has been change to clearly indicate that it is the Permittee that must follow the requirements of the condition

(19) IDEM has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.

(20) IDEM has revised Section C - Response to Excursions or Exceedances. The introduction sentence has been added to clarify that it is only when an excursion or exceedance is detected that the requirements of this condition need to be followed. The word "excess" was added to the last sentence of paragraph (a) because the Permittee only has to minimize excess emissions. The middle of paragraph (b) has been deleted as it was duplicative of paragraph (a). The phrase "or are returning" was added to subparagraph (b)(2) as this is an acceptable response assuming the operation or emission unit does return to normal or its usual manner of operation. The phrase "within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable" was replaced with "normal or usual manner of operation" because the first phrase is just a limited list of the second phrase. The recordkeeping required by paragraph (e) was changed to require only records of the response because the

previously listed items are required to be recorded elsewhere in the permit.

(21) IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

(22) The voice of paragraph (b) of Section C - General Record Keeping Requirements has been changed to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.

(23) IDEM has decided to simplify the referencing in Section C - Compliance with 40 CFR 82 and 326 IAC 22-1.

(24) The word "status" has been added to Section D - Record Keeping Requirements and Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.

(25) The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and Compliance Monitoring Report Form to match the underlying rule.

The permit has been revised as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

...

A.1 General Information [326 IAC 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary aluminum molding and die casting plant.

~~Mailing Address: 5222 Indianapolis Boulevard, East Chicago, IN 46312~~

...

~~B.1 Definitions [326 IAC 2-8-1]~~

~~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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]~~

~~(a) This permit, F089-23324-00323, is issued for a fixed term of ten (10) 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, 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 2-8-6] [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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

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

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(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

(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 2-8-4(3); and

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

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:

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

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

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

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

~~B.12 Emergency Provisions [326 IAC 2-8-12]~~

~~(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 except as provided in 326 IAC 2-8-12.~~

~~(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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, and Northern 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 Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northern Regional Office phone: (574) 245-4870; fax: (574) 245-4877.~~

~~(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 2-8-4(3)(C)(ii) and must contain the following:~~

~~(A) A description of the emergency;~~

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

~~(C) Corrective actions taken.~~

~~The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(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 2-8-3(c)(6) 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 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) 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.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

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

(a) All terms and conditions of permits established prior to F089-23324-00323 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

~~B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]~~

~~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 2-8-3(h) and 326 IAC 2-8-9.~~

~~B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]~~

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

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

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

~~The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

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

~~B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]~~

~~(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(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 2-8-8(a)]~~

~~(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 2-8-8(b)]~~

~~(d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]~~

~~B.17 Permit Renewal [326 IAC 2-8-3(h)]~~

~~(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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.~~

~~B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]~~

~~(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 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 shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]~~

~~B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]~~

~~(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).~~

~~(b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).~~

~~(c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.~~

~~(d) 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 2-8-11.1]

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

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

~~B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]~~

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

~~(b) 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 2-8-4(3)][326 IAC 2-8-5][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.~~

...

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, F089-23324-00323, is issued for a fixed term of ten (10) 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, 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 2-8-6] [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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

(1) it contains a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1), 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) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

(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 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.12 Emergency Provisions [326 IAC 2-8-12]

(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 except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-3(c)(6) 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 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) 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.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

(a) All terms and conditions of permits established prior to F089-23324-00323 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(4) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-8(a)]

(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 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(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 2-8-3. 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 2-8 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 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(d) 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.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ no later than thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) 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.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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.

~~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 Overall Source Limit [326 IAC 2-8]~~

~~The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.~~

~~(a) Pursuant to 326 IAC 2-8:~~

~~(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.~~

(2) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period;

~~(3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and~~

~~(4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.~~

~~(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.~~

~~(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.~~

~~(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.~~

~~C.3 Opacity [326 IAC 5-1]~~

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

~~(a) Opacity shall not exceed an average of thirty percent (30%) 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.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]~~

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

~~C.6 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).~~

~~C.8 Stack Height [326 IAC 1-7]~~

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

~~C.9 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 by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(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.

Testing Requirements [326 IAC 2-8-4(3)]

C.10 Performance Testing [326 IAC 3-6]

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

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

Indiana Department of Environmental Management
Compliance 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 certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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.11 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 2-8-4][326 IAC 2-8-5(a)(1)]

C.12 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

~~The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

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

~~C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]~~

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

~~C.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]~~

~~C.16 Risk Management Plan [326 IAC 2-8-4] [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.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]~~

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

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

~~(1) initial inspection and evaluation;~~

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

Indiana Department of Environmental Management
Compliance 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) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

~~Stratospheric Ozone Protection~~

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

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

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

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

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

Stratospheric Ozone Protection

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

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

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

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

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

...

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM) and greenhouse gases (GHGs), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period.

(4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(5) The potential to emit greenhouse gases (GHGs) from the entire source shall be limited to less than one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

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 thirty percent (30%) 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).

C.~~7~~**6** Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

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

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

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

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

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

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

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

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

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

(i) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

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

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

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on January 22, 1996. The plan is included as Attachment A.

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.

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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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.

Testing Requirements [326 IAC 2-8-4(3)]

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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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.

(c) 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.

C.~~15~~13 Continuous Compliance Plan Requirements [326 IAC 6.8-3-3]

In order to comply with 326 IAC 6.8-3-3 (formerly 326 IAC 6-1-10.1(I) a Continuous Compliance Plan (CCP) for the drying system, material storage handling, and the north and south bulk powder silos shall be maintained at the source=s property and include the following:

(a) a list of the processes and the facilities at the source;

(b) a list of the particulate matter control equipment associated with the drying system, material storage handling, and the north and south bulk powder silos;

(c) the process operating parameters critical to continuous compliance with the applicable PM-10 emission limits, including particulate matter control equipment operation and the maintenance requirements;

(d) the specific monitoring, recording, and record keeping procedures for process and control equipment for each facility specified in (a) and (b); and

(e) the procedure used to assure that the adequate exhaust ventilation is maintained through each duct at facilities where emissions are captured by a collection hood and transported to a control device.

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [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 2-8-4] [326 IAC 2-8-5]

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 2-8-4][326 IAC 2-8-5]

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(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.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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.

C.~~21~~**19** Continuous Compliance Plan [326 IAC 6.8-8-6]

Pursuant to 326 IAC 6.8-8-6 (Plan; particulate matter control equipment; operation and maintenance (formerly 326 IAC 6-1-10.1(l)) the CCP shall provide that the following control equipment related information and be available for inspection by OAQ personnel:

(a) startup, shutdown, and emergency procedures;

(b) sources shall notify the department fifteen (15) days in advance of startup of either new control equipment or control equipment to which major modifications have been made;

(c) manufacturers recommended inspection procedures, and safety devices and procedures, such as sensors, alarm systems, and bypass systems. If the manufacturers recommendations are not available, procedures shall be determined by the source;

(d) contents of the operators training program and the frequency with which the training is held;

(e) a list of spare parts available at the facility;

(f) a list of control equipment safety devices; and

(g) monitoring and recording devices and/or instruments to monitor and record control equipment operating parameters.

Particulate matter control equipment operation, recording, and inspection procedure requirements shall meet the requirements 326 IAC 6.8-8-7(1) (formerly 326 IAC 6-1-10.1(r)).

Stratospheric Ozone Protection

C.~~22~~**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.

...

(A) The Sections D.1.3, D.2.3 and D.3.3 are updated as follows:

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, ~~in accordance with Section B - Preventive Maintenance Plan, of this permit~~, 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.**

...

(B) The Sections D.1.6, D.2.5, and D.3.5 are updated as follows:

D.1.6 Visible Emissions Notations

...

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

(C) The Sections D.1.7, D.2.6, and D.3.6 are updated as follows:

D.1.7 Parametric Monitoring

The Permittee shall record the differential pressure across the baghouse used in conjunction with the drying system, at least once per day when the drying system is in operation ~~when venting to the atmosphere~~. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.5 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response. ~~steps in accordance with~~ Section C - Response to Excursions or Exceedances **contains the Permittee's obligation with regard to the reasonable response steps required by this condition**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response ~~steps in accordance with Section C - Response to Excursions or Exceedances~~ 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 **or replaced** at least once every six (6) months.

(d) The Sections D.1.9, D.2.8, and D.3.8 are updated as follows:

D.1.11 Record Keeping Requirement

(a) To document **the** compliance **status** with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the drying system exhaust vent. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(b) To document **the** compliance **status** with Condition D.1.7, the Permittee shall maintain daily records of the pressure drop across the baghouse. The Permittee shall include in its daily record when the pressure drop across the baghouse is not taken and the reason for the pressure drop was not taken (e.g. the process did not operate that day).

(c) ~~All records shall be maintained in accordance with Section~~ C - General Record Keeping Requirements, ~~of this permit~~ **contains the Permittee's obligations with regard to the records required by this condition**.

FESOP QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT FORM:

...

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements **of this permit**, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

...

~~Attach a signed certification to complete this report.~~

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 29, 2011.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Minor Revision No. F089-30936-00323. The staff recommends to the Commissioner that this FESOP Minor Revision be approved.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Swarna Prabha at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5376 or toll free at 1-800-451-6027 extension 45376.

(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.in.gov/idem

Appendix A: Emission Summary

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Uncontrolled Emissions **(tons/year)**

Emission Units	PM	PM10	PM2.5	SO2	VOC	CO	*GHGs- CO2e	NOx	HAPs
Dryer	3,942.00	534.36	534.36	0.20	0.66	9.20	13,219.97	11.00	Negligible
Raw Material Use Silo #1	82.59	82.59	82.59	0.00	0.00	0.00	0.00	0.00	0.00
North Bulk Powder Silo#2	11.26	11.26	11.26	0.00	0.00	0.00	0.00	0.00	0.00
South Bulk Powder Silo #3	11.26	11.26	11.26	0.00	0.00	0.00	0.00	0.00	0.00
Mixer & Bucket Elevator Briquette Line #1	2,147.45	2,147.45	2147.45	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #1	8,259.43	8,259.43	8259.43	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #2	825.94	825.94	825.94	0.00	0.00	0.00	0.00	0.00	0.00
Portland Cement Storage Silo #3	8,259.43	8,259.43	8259.43	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #1	214.75	214.75	214.75	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #2	214.75	214.75	214.75	0.00	0.00	0.00	0.00	0.00	0.00
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	1,387.58	1,387.58	1387.58	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #1	165.19	165.19	165.19	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #2	165.19	165.19	165.19	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #4	165.19	165.19	165.19	0.00	0.00	0.00	0.00	0.00	0.00
Dolo Lime Storage Silo #3	165.19	165.19	165.19	0.00	0.00	0.00	0.00	0.00	0.00
Ford Station #1 and Ford Station #2	429.5	429.5	429.5	0.00	0.00	0.00	0.00	0.00	0.00
Boiler	0.01	0.03	0.03496	2.76E-03	0.03	0.39	555.36	0.46	negl.
Conveying/Handling	0.25	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	35.33	9.19	9.19	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.003	0.001	0.00105	0.00	0.00	0.00	0.00	0.00	0.00
Mixing Towers (1 & 2)	65.18	20.5	20.5	0.00	0.00	0.00	0.00	0.00	0.00
Total existing	26,547.5	23,068.9	23,068.9	0.2	0.7	9.6	13,775.3	11.5	0.0
Mixing and bagging system	**7.37**	**2.18**	**2.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**26,554.84**	**23,071.08**	**23,071.08**	**0.20**	**0.69**	**9.59**	**13,775.33**	**11.46**	**Negligible**

The emissions from dryer combustions were not added corrctly in the existing permit # f089-23324-00323, are added .
*Pursuant to 326 IAC 2-7-1(39), starting July 1, 2011, greenhouse gases (GHGs) emissions are subject to regulation at a source with a potential to emit 100,000 tons per year or more of CO2 equivalent emissions (CO2e). Therefore, CO2e emissions have been calculated for this source. Based on the calculations the unlimited potential to emit greenhouse gases from the entire source is less than 100,000 tons of CO2e per year (see ATSD Appendix A for detailed calculations).
Thee are no emission factorfor PM2.5 in AP-42, PM10 = PM2.5

Appendix A: Emission Summary

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Controlled Emissions (tons/year)

Emission Units	PM	*PM10	PM2.5	SO2	VOC	CO	GHGs- CO2e	NOx	HAPs
Dryer	5.62	5.62	5.62	0.2	0.66	9.20	13219.97	11.00	negl.
Raw Material Use Silo #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
North Bulk Powder Silo#2	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
South Bulk Powder Silo #3	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Mixer & Bucket Elevator Briquette Line #1	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Storage/Processing Tank #2	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Portland Cement Storage Silo #3	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #1	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Mixer Desulf Station #2	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	6.94	6.94	6.94	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #1	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #2	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
High Calcium Lime Storage Silo #4	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Dolo Lime Storage Silo #3	0.83	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Ford Station #1 and Ford Station #2	2.14	2.14	2.14	0.00	0.00	0.00	0.00	0.00	0.00
Boiler	0.01	0.03	0.03	2.76E-03	0.03	0.39	555.36	0.46	negl.
Conveying/Handling	0.09	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Unpaved Roads	17.98	4.6	4.6	0.00	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.0033	0.001	0.001	0.00	0.00	0.00	0.00	0.00	0.00
Mixing Towers (1 & 2)	0.98	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00
mixing and bagging system	**7.37**	**0.10**	**0.10**	**0.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Total	**51.10**	**29.76**	**29.76**	**0.30**	**0.69**	**9.59**	**13775.3**	**11.46**	**Negligible**

* The addition of PM10 is corrected

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Aggregate Dryer Burner (Unit A)

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
25	219

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.20	0.80	0.10	11.00	0.66	9.20

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 January 15, 2007 revision 1-02-006-01
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000.00	2.3	2.2
Potential Emission in tons/yr			
Dryer	13,140.00	0.25	0.24
Summed Potential Emissions in tons/year			
Summed PTE Melting Furnace EU01		13,140.49	
CO2e Total in tons/yr			
CO2e Dryer		13,219.97	
Total		**13,219.97**	

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

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Agregate Dryer Burner
HAPs Emissions

Company Name: Harsco Minerals Briquetting LLC
Address, City, IN, Zip 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No: F089-23324-00323
Reviewer: Janet Mobley
Date: December 8, 2006

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.10E-03	1.20E-03	7.50E-02	1.80E+00	3.40E-03
Potential Emission in tons/yr	2.300E-04	1.314E-04	8.213E-03	1.971E-01	3.723E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03
Potential Emission in tons/yr	5.475E-05	1.205E-04	1.533E-04	4.161E-05	2.300E-04

Methodology is the same as page 2.

Total HAPs Emissions: **2.068E-01**

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Aggregate Dryer Burner (Unit A)

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

**** Dryer (Unit A) ****

The following calculations determine the amount of emissions created by drying system before controls, based on 8,760 hours of use and AIRS SCC #3-05-002-01 - asphaltic concrete - rotary dryer:conventional plant:

Pollutant: $\frac{\text{Ef lb/ton x} \quad 20 \text{ ton/hr x} \quad 8{,}760 \text{ hr/yr}}{2{,}000 \text{ lb/ton}}$

Criteria Pollutant:

P M:	45 lb/ton =	**3,942.00**	**tons/yr**
P M-10:	6.1 lb/ton =	**534.36**	**tons/yr**

Appendix A: Process Particulate Matter Emissions

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Uncontrolled Emissions (tons/year)

Process	Grain Loading per Standard Cubic Foot of Outlet Air	Gas or Air Flow Rate (acfm)	Control Efficiency	Potential Emissions (tons/year*)
North Bulk Powder Silo#2	0.003	500	99.50%	11.26
South Bulk Powder Silo #3	0.003	500	99.50%	11.26
Mixer & Bucket Elevator Briquette Line #1	0.022	1300	99.95%	2,147.45
Storage/Processing Tank #1	0.022	1000	99.99%	8,259.43
Storage/Processing Tank #2	0.022	1000	99.90%	825.94
Portland Cement Storage Silo #3	0.022	1000	99.99%	8,259.43
Mixer Desulf Station #1	0.022	1300	99.50%	214.75
Mixer Desulf Station #2	0.022	1300	99.50%	214.75
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	0.022	8400	99.50%	1,387.58
High Calcium Lime Storage Silo #1	0.022	1000	99.50%	165.19
High Calcium Lime Storage Silo #2	0.022	1000	99.50%	165.19
High Calcium Lime Storage Silo #4	0.022	1000	99.50%	165.19
Dolo Lime Storage Silo #3	0.022	1000	99.50%	165.19
Ford Station #1 and Ford Station #2	0.022	1300	99.50%	429.5
Total Emissions Based on Rated Capacity at 8,760 Hours/Year				**22,422.10**

Methodology
Potential emissions (lb/hr) = Grain Loading / SCF of Outlet Air*Air Flow Rate (acfm)*60 min/hr*1lb/7000gr/ (1-control efficiency)
Potential Emissions (tons/yr) = PM Potential (lb/hr)*1 ton/2000 lbs*8760 hrs/yr

Appendix A: Process Particulate Matter Emissions

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Controlled Emissions (tons/year)

Process	Grain Loading per Standard Cubic Foot of Outlet Air	Gas or Air Flow Rate (acfm)	Control Efficiency	Potential Emissions (tons/year*)
North Bulk Powder Silo#2	0.003	500	99.50%	0.06
South Bulk Powder Silo #3	0.003	500	99.50%	0.06
Mixer & Bucket Elevator Briquette Line #1	0.022	1300	99.95%	1.07
Storage/Processing Tank #1	0.022	1000	99.99%	0.83
Storage/Processing Tank #2	0.022	1000	99.90%	0.83
Portland Cement Storage Silo #3	0.022	1000	99.99%	0.83
Mixer Desulf Station #1	0.022	1300	99.50%	1.07
Mixer Desulf Station #2	0.022	1300	99.50%	1.07
Feeder, Pug Mill and Briquette Press Briquetting Line Pug Mill	0.022	8400	99.50%	6.94
High Calcium Lime Storage Silo #1	0.022	1000	99.50%	0.83
High Calcium Lime Storage Silo #2	0.022	1000	99.50%	0.83
High Calcium Lime Storage Silo #4	0.022	1000	99.50%	0.83
Dolo Lime Storage Silo #3	0.022	1000	99.50%	0.83
Ford Station #1 and Ford Station #2	0.022	1300	99.50%	2.14
Total Emissions Based on Rated Capacity at 8,760 Hours/Year after Controls				**18.20**

Methodology
Limited Emissions (lb/hr) = Grain Loading / SCF of Outlet Air*Air Flow Rate (acfm)*60 min/hr*1lb/7000gr/ (1-control efficiency)
Limited Emissions (tons/yr) = PM Potential (lb/hr)*1 ton/2000 lbs*8760 hrs/yr

Note: Actual grain loading rates for the processes S1- S17 were based on the maximum allowed by 326 IAC 6.8-2-25. S1 and S2 are specifically limited to 0.012 lb/hr PM-10, pursuant to 326 IAC 6.8-2-25. Equivalent grain loadings were determined using these limits and available control device information.

*** * conveying / handling * ***

The following calculations determine the amount of emissions created by material handling, based on 8.760 hours of use and AP-42, Section 13.2.4-3(1/95), Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

E = k*(0.0032)*(((U/5)^1.3)/((M/2)^1.4))

=	1.32E-03	lb PM-10/ton
	2.80E-03	lb PM/ton
where k =	0.35	(particle size multiplier for <10um)
	0.74	(particle size multiplier for <30um)
U =	12	mph mean wind speed
M =	4	material moisture content (%)

$$\frac{20}{2{,}000 \text{ lb/ton}} \text{ ton/hr} * 8{,}760 \text{ hrs/yr} * \text{Ef (lb/ton of material)} = \text{(ton/yr)}$$

Total PM 10 Emissions:	0.12	tons/yr
Total PM Emissions:	0.25	tons/yr

0.00112 9.073735905

E = k (sL)0.91 x (W)1.02

where: E = particulate emission factor (having units matching the units of k),
k = particle size multiplier for particle size range and units of interest (see below),
sL = road surface silt loading (grams per square meter) (g/m2), and
W = average weight (tons) of the vehicles traveling the road.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler
Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
1.05	9.2

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.01	0.03	0.00	0.46	0.03	0.39

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler (Unit B1) Insignificant
HAPs Emissions
Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit Number: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	9.660E-06	5.520E-06	3.450E-04	8.280E-03	1.564E-05

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.300E-06	5.060E-06	6.440E-06	1.748E-06	9.660E-06

Total HAPs Emissions:	8.681E-03

Methodology is the same as page 7.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gas Emissions

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000.00	2.3	2.2
Potential Emission in tons/yr			
Boiler	552.00	0.01	0.01
Summed Potential Emissions in tons/year			
Summed PTE Melting Furnace EU01		552.02	
CO2e Total in tons/yr			
CO2e Melting Furnace EU01		555.36	
Total		**555.36**	

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Summary
Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

*** * storage * ***

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	P M Emissions tons/yr	P M-10 Emissions tons/yr
Slopping Slag	1	0.007	400	1.48E-03	5.18E-04
Flourospar	1	0.009	500	1.90E-03	6.65E-04
Iron Ore	1	0.009	500	1.90E-03	6.65E-04
Grog	1	0.007	400	1.48E-03	5.18E-04
Total				**6.76E-03**	**2.37E-03**

Sample Calculation:

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
= 2.31 lb/acre/day
where s = 2 % 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

PM = 0.003 tons/yr P M-10: 35% of PM = 0.001

Appendix A: Emission Summary
Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

Unpaved roads

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2.2

I. Front End Loader

20 trip/hr x 0.1 miletrip x 2 (round trip) x 8760 hr/yr = 35,040 mile/yr
= 2.02 lb PM/mile
=0.52 lb PM 10/mile

where k =	10	(particle size mutliplier, PM30)	(k=2.6 for PM 10)
s =	4.8	mean % silt content of unpaved plant roads	
a =	0.8	Constant for PM30/PM-10	
W =	11	tons, average vehicle weight	
b =	0.5	Constant for PM30	(b=0.4 for PM 10)
Mdry =	0.2	surface material moisture content, % (default 0.2	(dry conditions)when using rainfall parameter)
c =	0.4	Constant for PM30	(c=0.3 for PM 10)
p =	125	number of days with at least 0.01 in of precipitation per year	
S =	5	mph speed limit	0.4 for PM10)

$$\frac{2.02 \text{ lb/mi} \times 35{,}040 \text{ mi/yr}}{2000 \text{ lb/ton}} = 35.33 \text{ tons/yr}$$

$$\frac{0.52 \text{ lb/mi} \times 35{,}040 \text{ mi/yr}}{2000 \text{ lb/ton}} = 9.19 \text{ tons/yr}$$

continued on next page

Appendix A: Emission Summary
Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

II. Sealed Pneumatic Tank Truck

0.01 trip/hr x 0.1 mile/trip x 2 round trip x 8, 760 hr/yr= 18 miles per year

Ef = k*[(s/12)^a]*[(W/3)^b]/[(Mdry/0.2)^c]*[(365-p)/365)]*(S/15)

= 3.16 lb PM/mile

= 0.82 lb PM-10/mile

where k =	10	(particle size mutliplier, PM30) (k=2.6 for PM 10)
s =	4.8	mean % silt content of unpaved plant roads
a =	0.8	Constant for PM30/PM-10
W =	27	tons, average vehicle weight
b =	0.5	Constant for PM30 (b = 0.4 for PM 10)
Mdry =	0.2	surface material moisture content, % (default 0.2(dry conditions)when using rainfall parameter)
c =	0.4	Constant for PM30 c = 0.3 for PM 10
p =	125	number of days with at least 0.01 in of precipitation per year
S =	5	mph speed limit

$$\frac{3.16 \text{ lb/mi} \times 18 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.03 \text{ tons/yr}$$

$$\frac{0.82 \text{ lb/mi} \times 18 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.01 \text{ tons/yr}$$

Total PM Emissions From Unpaved Roads =	**35.36 tons/yr**
Total PM-10 Emissions From Unpaved Roads =	**9.19 tons/yr**

Company Name: **Harsco Minerals Briquetting LLC**
Address City IN Zip: **5222 Indianapolis Boulevard, East Chicago, IN 46312**
Permit No.: **F089-23324-00323**
Minor Permit Revision No: **F089-30936-00323**
Reviewer: **Swarna Prabha**

**** Mixing Towers ****

The following calculations determine the amount of emissions created by mixing tower based on 8,760 hours of use and emission data supplied by Asphalt Engineers, Inc.

Pollutant: Ef lb/ton x 20 ton/hr x 8,760 hr/yr / 2,000 lb/ton

Criteria Pollutant:

P M:	0.372 lb/ton =	**32.59 tons/yr**	**x 2**	**65.18 tons/yr**
P M-10:	0.117 lb/ton =	**10.25 tons/yr**	**x 2**	**20.5 tons/yr**

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

*** * four bin conveying / handling * ***

The following calculations determine the amount of emissions created by material handling, based on 8.760 hours of use and AP-42, Section 13.2.4-3(1/95), Equation 1.

Particulate Emissions :

E = k*(0.0032)*(((U/5)^1.3)/((M/2)^1.4))

where k =	0.053	(particle size multiplier for <2.5um)
where k =	0.35	(particle size multiplier for <10um)
	0.74	(particle size multiplier for <30um)
U =	12	mph mean wind speed
M =	4	material moisture content (%)
Maximum capacity =	21	tons/yr

2.01E-04 lb PM-2.5/ton
1.32E-03 lb PM-10/ton
2.80E-03 lb PM/ton

$$\frac{\text{Maximum capacity}}{2{,}000 \text{ lb/ton}} \text{ ton/hr} * 8{,}760 \text{ hrs/yr} * \text{Ef (lb/ton of material)} = \text{(ton/yr)}$$

Total PM 2.5 Emissions:	1.84E-02 tons/yr
Total PM 10 Emissions:	1.22E-01 tons/yr
Total PM Emissions:	2.58E-01 tons/yr

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

4 bin Loader Traffic on Paved Road

According to AP-42, Chapter 13.2.1 - Paved Roads (1/11), the PM/PM10 emission factors for paved roads:

$$E = k(sL)^{0.91} \times W^{1.02}$$

Where:

k =	0.011	PM
k =	0.0022	PM10
sL =	12	g/m^2 (Mean silt loading concrete batching Table 13.2.1.-3)
W=	20.5	tons (CAT 960) Mean vehicle weight
E=	Emission Factor	
VMT=	Vehicle Mile Travel	

PM Emission Factor = $(0.011 \times (9.7)^{0.91} \times (15.1)^{1.02}$ = 3.45 lbs/VMT
PM10 Emission Factor = $(0.0022 \times (9.7)^{0.91} \times (15.1)^{1.02}$ = 0.80 lbs/VMT
PTE PM= 4.08 tons/yr
PTE PM10= 0.94 tons/yr

NOTE: Front End loader 120' round trip (time study = 14 trips per 24 tons (0.58 trips/ton); 21 Max tons/hr * 0.58 = 12 trips/hr at MAX pr
Each trip is 0.023 miles (120/5280) * 122 = 0.27 miles /hr

Methodology:
Average Vehicle Weight (ton) = (Weight of Unloaded Vehicles + Weight of Loaded Vehicles) / 2
Total Trip Number (trips/yr) = Trucks per day x 365 (days/yr)
Traffic Component (%) = Trucks per Day (by type) / Total Trucks per Day
Component Vehicle Weight = Avg. Vehicle Weight (tons) x Traffic Component (%)
(Note that the summation of the component vehicle weight equals the Mean Vehicle Weight.)
VMT(miles/yr) = Length of Paved Roads in One Direction (miles) x 2 x Total Trip Numbers (trips/yr)
PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (lbs/mile) x 1 tons/ 2000 lbs

Appendix A: Emission Summary

Company Name: Harsco Minerals Briquetting LLC
Address City IN Zip: 5222 Indianapolis Boulevard, East Chicago, IN 46312
Permit No.: F089-23324-00323
Minor Permit Revision No: F089-30936-00323
Reviewer: Swarna Prabha

4 bin Loader Traffic on Paved Road

Emission Point	Description	Control Description	Hourly Capacity (tons/hour)	PM - Emission Factor (lbs/ton)	PM10 - Emission Factor (lbs/ton)	baghouse Control Efficiency	PTE of PM before control (tons/yr)	PTE of PM10 before control (tons/yr)	PTE of PM after control (tons/yr)	PTE of PM10 After Control (tons/yr)
Mixing and Bagging System	(4) frontend loaders	Hood/ baghouse	84	0.003	0.0011	99.5%	1.10	0.40	0.0013	0.0005
	four (4) small bin conveyors	Hood/ baghouse	84	0.003	0.0011	99.5%	1.10	0.40	0.0013	0.0005
	one (1) main conveyor	Hood/ baghouse	21	0.003	0.0011	99.5%	0.28	0.10	0.00	0.0001
	Supersack Hopper	Hood/ baghouse	21	0.003	0.0011	99.5%	0.28	0.10	0.00	0.0001
	Supersack Loader	Hood/ baghouse	21	0.003	0.0011	99.5%	0.28	0.10	0.00	0.0001
						TOTAL	**3.04**	**1.11**	**0.00**	**0.00**

***NOTE**: Emissions from the front end loaders, small bin conveyors and main conveyors are based on SCC 2-05-020-06 AP42 table 11.19.2-2 and are not subjec to 326 IAC 6.3-2 (Crushed Stone Processing and Pulverized Mineral Processing)
There are no emission factors in AP 42 for PM2.5, PM10 = PM2.5
The below control efficiencies are consistent with values contained in Table 6-1 of EPA document "Stationary Source Control Techniques Document for Fine Particulate Matte EPA-452/R-97-001" and Table 9.12.11 of EPA document "Control Techniques for Particulate Emissions from Stationary Sources, Volume 2, EPA-450/3-81-005b

Control Efficiency :
Hood/Baghouse control efficiency = 99.5%
There are no emissions for PM2.5 in AP42, therefore PM10 = PM2.5

Methodology

PTE of PM before Control (tons/yr) = Maximum Throughput (tons/hr) x Emission Factor (lb/ton) x 8760 hr/yr x 1 ton/2000 lbs
PTE of PM after controls (tons/yr) = Maximum Throughput (tons/hr) x PM Emission factor x (1 - control efficiency/100) x 8760 hr/yr x 1 ton/2000 lbs

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: Guy Kosmoski
Harsco Minerals Briquetting LLC
5222 Indianapolis Blvd
East Chicago, IN 46312

DATE: November 1, 2011

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

SUBJECT: Final Decision
FESOP
089-30936-00323

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:
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.

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 1, 2011

RE: Harsco Minerals Briquetting LLC / 089-30936-00323

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

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

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

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

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

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

Enclosures
CD Memo.dot 11/14/08

Mail Code 61-53

IDEM Staff	CDENNY 11/1/2011 Goshen Coach & Marque McCoy Miller 30375 (draft/final)		
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING

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		Gretchen K Neeser Goshen Coach & Marque McCoy Miller 25161 Leer Dr Elkhart IN 46514 (Source CAATS)									
2		P Michael Person VP - Finance Goshen Coach & Marque McCoy Miller 25161 Leer Dr Elkhart IN 46514 *(RO CAATS)*									
3		Elkhart City Council and Mayors Office 229 South Second Street Elkhart IN 46516 *(Local Official)*									
4		Elkhart Public Library 300 S 2nd St Elkhart IN 46516-3184 *(Library)*									
5		Elkhart County Health Department 608 Oakland Avenue Elkhart IN 46516 *(Health Department)*									
6		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 *(Affected Party)*									
7		Mr. Kevin Parks D & B Environmental Services, Inc. 401 Lincoln Way West Osceola IN 46561 *(Consultant)*									
8		Elkhart County Board of Commissioners 117 North Second St. Goshen IN 46526 *(Local Official)*									
9		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 *(Affected Party)*									
10											
11											
12											
13											
14											
15											

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

FACSIMILIE OF PS Form 3877