



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

TO: Interested Parties / Applicant

DATE: October 31, 2013

RE: O-N Minerals (Portage) Company, LLC / 127 - 32964 - 00038

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 6/13/13



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Belinda Speer
O-N Minerals (Portage) Company LLC
165 Steel Drive
Portage, Indiana 46368

October 31, 2013

Re: 127-32964-00038
First Significant Revision to
F127-19508-00038

Dear Belinda Speer:

O-N Minerals (Portage) Company LLC was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F127-19508-00038 on March 29, 2007 for a stationary non-metallic minerals processing plant located at 1665 Steel Drive, Portage, Indiana. On March 18, 2013, the Office of Air Quality (OAQ) received an application from the source requesting to revise its FESOP to reflect the construction of new emission units to its operation. 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 Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant 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 significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

O-N Minerals (Portage) Company LLC
Portage, Indiana
Permit Reviewer: Jack Harmon

Page 2 of 2
FESOP SPR No. 127-32964-00038

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 Jack Harmon of my staff at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,



Chrystal Wagner, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

CW/jh

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



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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**O-N Minerals (Portage) Company, LLC
165 Steel Drive
Portage, Indiana 46368**

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

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

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.

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.

Operation Permit No.: F 127-19508-00038	
Original Signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: March 29, 2007 Expiration Date: March 29, 2017

First Administrative Amendment No.: 127-25681-00038, issued on January 23, 2008
Second Administrative Amendment No. 127-28485-00038, issued on October 19, 2009
Third Administrative Amendment No.: 127-28840-00038, issued January 22, 2010
Fourth Administrative Amendment No.: 127-28966-00038, issued March 29, 2010
Fifth Administrative Amendment No.: 127-29081-00038, issued April 26, 2010

First Significant Permit Revision No: 127-32964-00038	
Issued by:  Chrystal A. Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: October 31, 2013 Expiration Date: March 29, 2017

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary non-metallic minerals processing plant.

Source Address:	165 Steel Drive, Portage, Indiana 46368
General Source Phone Number:	219-787-9190
SIC Code:	1422
County Location:	Porter
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules 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:

Boat-Unloading System

- (a) One (1) belt conveyor system, consisting of one (1) loadout hopper and three (3) belt conveyors for a total of four (4) transfer points, delivering uncrushed material directly from a barge to an initial stockpile, installed in 2003, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, identified as Mill 1, equipped with a baghouse for particulate matter control, exhausted through Stack 01-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding product line.
- (c) One (1) storage silo bin, identified as 01-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 01-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (d) One (1) dust-free loadout, identified as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (e) One (1) outside rock hopper, identified as 01-ORH-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (f) One (1) belt conveyor, identified as 01-RBF-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (g) One (1) mill feed tank, identified as 01-MFT-001, installed in April 1992, storage capacity: 300 tons of non-metallic minerals, throughput capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.

- (h) One (1) bucket elevator, identified as 01-BEL-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (i) One (1) belt conveyor, identified as 01-RBC-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.

Mill 2

- (j) One (1) enclosed mill system, identified as Mill 2, equipped with a baghouse for particulate matter control, exhausted through Stack 02-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (k) One (1) storage silo bin, identified as 02-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 02-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.

Mill 3

- (l) One (1) enclosed mill system, identified as Mill 3, equipped with a baghouse for particulate matter control, exhausted through Stack 03-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (m) One (1) storage silo bin, identified as 03-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 03-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (n) One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Note: There is no Mill 4.

Mill 5

- (o) One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (p) Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.
- (q) One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (r) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (s) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

- (t) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (u) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (v) One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.

Storage Silo (Tank 6) and North Scale Loadout

- (ww) One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.
- (x) One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.

Mill 7

- (y) One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (z) One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (aa) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) Truck loading and unloading at plant input area, identified as FLT-07;
 - (2) One (1) Hopper/feeder, identified as FHF-07;
 - (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
 - (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
 - (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
 - (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
 - (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
 - (8) One (1) Storage increase at loadout point, identified as FSL-07; and
 - (9) One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.

Mill 8

- (bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;

- (cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

A.3 Specifically Regulated 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 which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-5] [326 IAC 8-3-8]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

A.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) to renew 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 127-19508-00038, 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:
- (i) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
 - (ii) the certification is 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. 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 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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

The Permittee shall implement the PMPs.

- (c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.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 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 Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office Telephone: 219-757-0265; Facsimile: 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 127-19508-00038 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 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. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable;
- (2) 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
- (3) 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) The 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. This limitation shall render 326 IAC 2-2 not applicable.

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

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

C.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 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.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.7 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on February 11, 2010. The plan is included as Attachment A to this permit.

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

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management

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

no later than ninety (90) days after the date of issuance of this permit.

The ERP 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) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [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.16 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.17 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.18 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.19 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.

Stratospheric Ozone Protection

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Mills 1, 2, 3, 5, 6, 7, and 8; Storage Tank (Tank 6) and North Scale Loadout

Boat-Unloading System

- (a) One (1) belt conveyor system, consisting of one (1) loadout hopper and three (3) belt conveyors for a total of four (4) transfer points, delivering uncrushed material directly from a barge to an initial stockpile, installed in 2003, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, identified as Mill 1, equipped with a baghouse for particulate matter control, exhausted through Stack 01-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding product line.
- (c) One (1) storage silo bin, identified as 01-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 01-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (d) One (1) dust-free loadout, identified as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (e) One (1) outside rock hopper, identified as 01-ORH-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (f) One (1) belt conveyor, identified as 01-RBF-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (g) One (1) mill feed tank, identified as 01-MFT-001, installed in April 1992, storage capacity: 300 tons of non-metallic minerals, throughput capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (h) One (1) bucket elevator, identified as 01-BEL-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (i) One (1) belt conveyor, identified as 01-RBC-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.

Mill 2

- (j) One (1) enclosed mill system, identified as Mill 2, equipped with a baghouse for particulate matter control, exhausted through Stack 02-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (k) One (1) storage silo bin, identified as 02-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 02-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.

Mill 3

- (l) One (1) enclosed mill system, identified as Mill 3, equipped with a baghouse for particulate matter control, exhausted through Stack 03-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (m) One (1) storage silo bin, identified as 03-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 03-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (n) One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

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

Facility Description [326 IAC 2-8-4(10)]: continued

Note: There is no Mill 4.

Mill 5

- (o) One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (p) Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.
- (q) One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (r) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (s) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (t) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (u) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (v) One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.

Storage Silo (Tank 6) and North Scale Loadout

- (w) One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.
- (x) One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.

Mill 7

- (y) One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (z) One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (aa) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) Truck loading and unloading at plant input area, identified as FLT-07;

- (2) One (1) Hopper/feeder, identified as FHF-07;
- (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
- (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
- (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
- (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
- (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
- (8) One (1) Storage increase at loadout point, identified as FSL-07; and
- (9) One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.

Mill 8

- (bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

(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 2-8-5(1)]

D.1.1 PM₁₀ and PM_{2.5} Limitations [326 IAC 2-8-4]

- (a) The following emission units shall not exceed the following hourly PM₁₀ and PM_{2.5} limits:

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)	Hourly PM _{2.5} Emission Limit (lbs/hr)
Mill 1	0.75	0.75
01-FPT-001	0.42	0.42
01-DFL-001	0.25	0.25
Mill 2	0.75	0.75
02-FPT-001	0.42	0.42
Mill 3	0.75	0.75
03-FPT-001	0.42	0.42
Mill 5	2.84	2.84
05-FPT-001	0.72	0.72

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)	Hourly PM _{2.5} Emission Limit (lbs/hr)
05-FPT-002	0.72	0.72
05-DFL-001	0.25	0.25
Mill 6	2.84	2.84
02-FPT-002	0.52	0.52
02-DFL-001	0.27	0.27
Grinding Mill #7	0.84	0.30
Grinding Mill #8	0.84	0.30

- (b) Compliance with these PM₁₀ and PM_{2.5} emission limits will keep the PM₁₀ and PM_{2.5} emissions from the source to less than one hundred (100) tons per year and renders the requirements of 326 IAC 2-7 not applicable.

D.1.2 PSD Minor PM and PM₁₀ Limits [326 IAC 2-2]

(a) The following emission units shall not exceed the following hourly PM and PM₁₀ limits:

Facility	Hourly PM Emission Limit (lbs/hr)	Hourly PM ₁₀ Emission Limit (lbs/hr)
Mill 1	0.85	0.75
01-FPT-001	0.47	0.42
01-DFL-001	0.28	0.25
Mill 2	0.85	0.75
02-FPT-001	0.47	0.42
Mill 3	0.85	0.75
03-FPT-001	0.47	0.42
03-DFL-001	0.28	0.25
Mill 5	3.21	2.84
05-FPT-001	0.81	0.72
05-FPT-002	0.81	0.72
05-DFL-001	0.28	0.25
Mill 6	3.21	2.84
02-FPT-002	0.58	0.52
02-DFL-001	0.30	0.27
Grinding Mill #7	1.01	0.84
Grinding Mill #8	1.01	0.84

(b) Compliance with the above PM and PM₁₀ emission limits together with the potential to emit of the uncontrolled emission units and insignificant activities shall keep the total PM and PM₁₀ potential to emit less than two hundred fifty (250) tons per year and less than one hundred (100) tons per year, respectively, and renders the requirements of 326 IAC 2-2 not applicable.

D.1.3 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grinding mills and the conveyance and support equipment shall not exceed the following pounds per hour when operating at a process weight rate, as indicated in the table below. The pound per hour limitation was calculated with the following equation:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Emission Unit Description	Process Weight Rate (tons/hr)	PM Emission Limit Under 326 IAC 6-3-2 (lb/hr)
Enclosed Mill System (Mill 1)	15.0	25.16
Silo (01-FPT-001)	12.5	22.27
Dust-Free Loadout System (01-DFL-001)	12.5	22.27
Enclosed Mill System (Mill 2)	15.0	25.16
Silo (02-FPT-001)	12.5	22.27
Enclosed Mill System (Mill 3)	15.0	25.16
Silo (03-FPT-001)	12.5	22.27
Dust-Free Loadout System (03-DFL-001)	12.5	22.27
Belt Conveyor (03-RBF-001)	12.5	22.27
Product Lump Breaker (03-PLB-001)	12.5	22.27
Bucket Elevator (03-BEL-001)	12.5	22.27
Inside Feed Tank (03-MFT-001)	12.5	22.27
Belt Conveyor (03-RBC-001)	12.5	22.27
Enclosed Mill System (Mill 5)	25.0	35.43
Silo (05-FPT-001)	25.0	35.43
Silo (05-FPT-002)	25.0	35.43
Dust-Free Loadout System (05-DFL-001)	25.0	35.43
Belt Conveyor (05-RBF-001)	25.0	35.43
Bucket Elevator (05-BEL-001)	25.0	35.43
Inside Feed Tank (05-MFT-001)	25.0	35.43
Enclosed Mill System (Mill 6)	25.0	35.43
Silo (02-FPT-002)	25.0	35.43
Dust-Free Loadout System (02-DFL-001)	25.0	35.43
Enclosed Mill 7 System (EGM-07)	25.0	35.43
Truck Load and Unload (FLT-07)	25.0	35.43
Hopper/Feeder (FHF-07)	25.0	35.43
Belt/Feeder (FBF-07)	25.0	35.43
Belt Conveyor (FBC-07)	25.0	35.43
Feed Bin (FFV-07)	25.0	35.43
Vibrating Feeder (FVT-07)	25.0	35.43
Pneumatic Conveyor (FPC-07)	25.0	35.43
Storage at Loadout (FSL-07)	25.0	35.43
Enclosed Mill 8 System (EGM-08)	25.0	35.43
Feed Bin (FFV-08)	25.0	35.43
Vibrating Feeder (FVT-08)	25.0	35.43
Pneumatic Conveyor (FPC-08)	25.0	35.43

The baghouse shall be in operation at all times the grinding mill #7 and/or grinding mill #8 are in operation, in order to comply with this limit.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the following facilities and any control devices:

- (a) At the Mill 1 Facilities: Mill 1, 01-FPT-001 and 01-DFL-001
- (b) At the Mill 2 Facilities: Mill 2 and 02-FPT-001
- (c) At the Mill 3 Facilities: Mill 3, 03-FPT-001 and 03-DFL-001
- (d) At the Mill 5 Facilities: Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001
- (e) Mill 6
- (f) Storage Silo (Tank 6) and North Scale Loadout: 02-FPT-002 and 02-DFL-001
- (g) Grinding Mill #7 (EGM-07)
- (h) Grinding Mill #8 (EGM-08)

Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan.

Compliance Determination Requirements [326 IAC 2-8-5(a)(1) & (4)] [326 IAC 2-1.1-11]

D.1.5 Particulate Control

- (a) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the baghouses associated with Mills 1, 2, 3, 5, 6, 7, and/or 8 for PM and PM₁₀ control shall be in operation at all times when their respective Mills 1, 2, 3, 5, 6, 7, and/or 8 are in operation.
- (b) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the cartridge filters associated with Mills 1, 2, 3, 5 and/or 6 for PM and PM₁₀ control shall be in operation at all times when their respective Mills 1, 2, 3, and/or 5 are in operation.
- (c) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the truck loadout (02-BNV-003) at all times when the truck loadout is in operation.
- (d) In order to comply with Conditions D.1.1, D.1.2 and D.1.3, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the storage silo (02-BNV-002) at all times when the silo is in operation.
- (e) 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 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

In order to demonstrate the compliance status with Conditions D.1.1, D.1.2, and D.1.3, the Permittee shall perform stack testing on stack MDC-001 for PM, PM₁₀, and PM_{2.5} within 180 days after startup of Grinding Mills #7 and #8. The testing shall be repeated no later than every 5 years from the date of the last demonstration of compliance.

Compliance Monitoring Requirements [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)]

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts for Mill 1 (01-MDC-001, 01-BNV-001 and 01-BNV-002), for Mill 2 (02-MDC-001 and 02-BNV-001), for Mill 3 (03-MDC-001, 03-BNV-001 and 03-BNV-002), for Mill 5 (05-MDC-001, 05-BNV-001, 05-BNV-002 and 05-BNV-003), for Mill 6 (06-MDC-001), for the Storage Silo (Tank 6) (02-BNV-002) and for the North Scale Loadout (02-BNV-003), for Mill 7 (MDC--001), and Mill 8 (MDC-001) shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

D.1.8 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with Mill 1, 2, 3 and 5 operations, at least once per day when Mill 1, 2, 3 and 5 is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses and cartridge filters is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with Mill 6, at least once per day while the Mill 6 is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

- (c) The Permittee shall record the pressure drop across the baghouse used in conjunction with Mill 6, at least once per day while the Mill 7 and Mill 8 are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 4.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

- (d) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with the Storage Silo (Tank 6) (02-BNV-002) and the North Scale Loadout (02-BNV-003), at least once per day while the facilities are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

D.1.9 Broken or Failed Bag Detection

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

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

Record Keeping and Reporting Requirement [326 IAC 2-8-5(3)] [326 IAC 2-8-19]

D.1.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.7, the Permittee shall maintain daily records of visible emission notations of the stack exhausts for Mill 1 (01-MDC-001, 01-BNV-001 and 01-BNV-002), for Mill 2 (02-MDC-001 and 02-BNV-001), for Mill 3 (03-MDC-001, 03-BNV-001 and 03-BNV-002), for Mill 5 (05-MDC-001, 05-BNV-001, 05-BNV-002 and 05-BNV-003), Mill 6 (06-MDC-001), for the Storage Silo (Tank 6) (02-BNV-002,) and for the North Scale Loadout (02-BNV-003), for Mill 7 (MDC--001), and Mill 8 (MDC-001). 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.1.8, the Permittee shall maintain records once per day of the pressure drop during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations regarding record keeping.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: - Insignificant Activities

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-5] [326 IAC 8-3-8]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(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 2-8-5(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):

- (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.2.2 Material Requirements for Cold Cleaning Degreasers [326 IAC 8-3-8]

The Permittee shall do the following:

- (a) Cause or allow the sale of solvents for use in cold cleaning degreasing operations with a vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business.
- (b) Operate a cold cleaning degreaser with a solvent vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.2.3 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).

Record Keeping and Reporting Requirement [326 IAC 2-8-5(3)] [326 IAC 2-8-19]

Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.2, the Permittee shall maintain each of the following records for each purchase:
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase.
 - (3) The type of solvent.
 - (4) The volume of each unit of solvent.

- (5) The total volume of the solvent.
- (6) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).
- (b) All records required by 326 IAC 8-3-8(d) shall be retained on-site for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations regarding record keeping.

SECTION E.1 EMISSION UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Mills 1, 2, 3, 5, 6, 7, and 8; Storage Tank (Tank 6) and North Scale Loadout

Boat-Unloading System

- (a) One (1) belt conveyor system, consisting of one (1) loadout hopper and three (3) belt conveyors for a total of four (4) transfer points, delivering uncrushed material directly from a barge to an initial stockpile, installed in 2003, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, identified as Mill 1, equipped with a baghouse for particulate matter control, exhausted through Stack 01-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding product line.
- (c) One (1) storage silo bin, identified as 01-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 01-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (d) One (1) dust-free loadout, identified as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (e) One (1) outside rock hopper, identified as 01-ORH-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (f) One (1) belt conveyor, identified as 01-RBF-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (g) One (1) mill feed tank, identified as 01-MFT-001, installed in April 1992, storage capacity: 300 tons of non-metallic minerals, throughput capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (h) One (1) bucket elevator, identified as 01-BEL-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (i) One (1) belt conveyor, identified as 01-RBC-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.

Mill 2

- (j) One (1) enclosed mill system, identified as Mill 2, equipped with a baghouse for particulate matter control, exhausted through Stack 02-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (k) One (1) storage silo bin, identified as 02-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 02-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.

Mill 3

- (l) One (1) enclosed mill system, identified as Mill 3, equipped with a baghouse for particulate matter control, exhausted through Stack 03-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (m) One (1) storage silo bin, identified as 03-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 03-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (n) One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Note: There is no Mill 4.

Mill 5

- (o) One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.

- (p) Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.
- (q) One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (r) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (s) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (t) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (u) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (v) One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.

Storage Silo (Tank 6) and North Scale Loadout

- (w) One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.
- (x) One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.

Mill 7

- (y) One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (z) One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (aa) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) Truck loading and unloading at plant input area, identified as FLT-07;
 - (2) One (1) Hopper/feeder, identified as FHF-07;
 - (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
 - (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
 - (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
 - (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
 - (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
 - (8) One (1) Storage increase at loadout point, identified as FSL-07; and
 - (9) One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.

Mill 8

- (bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

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

E.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the Mills 1, 2, 3, 5, 6, 7, and 8 described in this section except when otherwise specified in 40 CFR 60.670 through 60.676, Subpart OOO.

E.1.2 NSPS Subpart OOO and 326 IAC 12

This source, consisting of Mills 1, 2, 3, 5, 6, 7, and 8 is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO.

Applicable portions of the NSPS, Subpart OOO are as follows:

- (1) 40 CFR 60.670
- (2) 40 CFR 60.671
- (3) 40 CFR 60.672
- (4) 40 CFR 60.673
- (5) 40 CFR 60.674
- (6) 40 CFR 60.675
- (7) Table 1
- (8) Table 2
- (9) Table 3

40 CFR 60, Subpart OOO is shown in its entirety in Attachment B of this permit.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: O-N Minerals (Portage) Company LLC
Source Address: 165 Steel Drive, Portage, Indiana 46368
Mailing Address: 165 Steel Drive, Portage, Indiana 46368
FESOP No.: F 127-19508-00038

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) _____
- 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: O-N Minerals (Portage) Company LLC
Source Address: 165 Steel Drive, Portage, Indiana 46368
Mailing Address: 165 Steel Drive, Portage, Indiana 46368
FESOP Permit No.: F 127-19508-00038

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• 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: O-N Minerals (Portage) Company LLC
Source Address: 165 Steel Drive, Portage, Indiana 46368
Mailing Address: 165 Steel Drive, Portage, Indiana 46368
FESOP Permit No.: F 127-19508-00038

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

O-N Minerals (Portage) Company LLC
165 Steel Drive
Portage, Indiana 46368

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____.
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)
4. I hereby certify that O-N Minerals (Portage) Company 46368, completed construction of the Grinding Mill #7 and Grinding Mill #8 and support equipment on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on March 18, 2013 and as permitted pursuant to New Source Construction Permit and FESOP No. F127-32964-00038, Plant ID No. 127-00038, issued on _____.
5. Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana
on this _____ day of _____, 20 _____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

Carmeuse Lime & Stone

Portage Operation
165 Steel Drive
Portage, IN 46368

TEL 219-787-9190
FAX 219-787-9397



Portage Operation

**Attachment A
Fugitive Dust Control Plan
January 2010**

Reference FESOP, F 127-19508-00038, Section C.6, Fugitive Dust Emissions (326 IAC 6-4)

1. Roads and Parking Lots
 - a. Wash down parking lot, paved and unpaved routes as necessary.
2. Open Aggregate Pile
 - a. Material is wet when unloaded from ships, and will be wetted down as necessary.
3. Outdoor Conveying Equipment for Finished Product
 - a. Covered Conveyor
4. Transfer of Aggregates (Loader Feeding Plant, front end loaders)
 - a. None
5. Transport of Material (Truck)
 - a. Keep trucks on pavement and or designated unpaved haul route
 - b. Wash mud on trucks and front end loader when necessary.
6. Loading and Unloading
 - a. Feed hopper vented to dust collector.
 - b. Build hood over hopper.
 - c. Use dust free loading spouts to load trucks.
 - d. Enclose area around bottom of Silos.
7. Solid Waste Handling
 - a. Floor sweepings are recycled.
8. Crushing Screening and Grinding
 - a. Totally enclosed process vented only to dust collectors.
9. Fugitive emissions from buildings
 - a. Daily sweeping.

Attachment B
to a FESOP Permit

40 CFR 60, Subpart 000 – New Source Performance Standards for Nonmetallic Mineral Processing Plants:

Source Description and Location
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Source Name:	O-N Minerals (Portage) Company LLC
Source Location:	165 Steel Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	1422
FESOP Permit No.:	F127-16508-00038
Permit Reviewer:	MLK/MES

Subpart 000—Standards of Performance for Nonmetallic Mineral Processing Plants

§ 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; plants without crushers or grinding mills above ground; and wet material processing operations (as defined in § 60.671).

(b) An affected facility that is subject to the provisions of subparts F or I of this part or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.

(c) Facilities at the following plants are not subject to the provisions of this subpart:

(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 23 megagrams per hour (25 tons per hour) or less;

(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 136 megagrams per hour (150 tons per hour) or less; and

(3) Common clay plants and pumice plants with capacities, as defined in § 60.671, of 9 megagrams per hour (10 tons per hour) or less.

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in § 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §§ 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in § 60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§ 60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that do not apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions.

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more affected facilities to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more affected facilities at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crush or Crushing means to reduce the size of nonmetallic mineral material by means of physical impaction of the crusher or grinding mill upon the material.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: Jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in § 60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: Hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(1) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(2) Sand and Gravel.

(3) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(4) Rock Salt.

(5) Gypsum (natural or synthetic).

- (6) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.
- (7) Pumice.
- (8) Gilsonite.
- (9) Talc and Pyrophyllite.
- (10) Boron, including Borax, Kernite, and Colemanite.
- (11) Barite.
- (12) Fluorospar.
- (13) Feldspar.
- (14) Diatomite.
- (15) Perlite.
- (16) Vermiculite.
- (17) Mica.
- (18) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in § 60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Saturated material means, for purposes of this subpart, mineral material with sufficient surface moisture such that particulate matter emissions are not generated from processing of the material through screening operations, bucket elevators and belt conveyors. Material that is wetted solely by wet suppression systems is not considered to be "saturated" for purposes of this definition.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens). Grizzly feeders associated with truck dumping and static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are not considered to be screening operations.

Seasonal shut down means shut down of an affected facility for a period of at least 45 consecutive days due to weather or seasonal market conditions.

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) of nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: Trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet material processing operation(s) means any of the following:

(1) Wet screening operations (as defined in this section) and subsequent screening operations, bucket elevators and belt conveyors in the production line that process saturated materials (as defined in this section) up to the first crusher, grinding mill or storage bin in the production line; or

(2) Screening operations, bucket elevators and belt conveyors in the production line downstream of wet mining operations (as defined in this section) that process saturated materials (as defined in this section) up to the first crusher, grinding mill or storage bin in the production line.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

§ 60.672 Standard for particulate matter (PM).

(a) Affected facilities must meet the stack emission limits and compliance requirements in Table 2 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.8. The requirements in Table 2 of this subpart apply for affected facilities with capture systems used to capture and transport particulate matter to a control device.

(b) Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

(c) [Reserved]

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

(e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) and (b) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

(1) Fugitive emissions from the building openings (except for vents as defined in § 60.671) must not exceed 7 percent opacity; and

(2) Vents (as defined in § 60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of this subpart.

(f) Any baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of this subpart but must meet the applicable stack opacity limit and compliance requirements in Table 2 of this subpart. This exemption from the stack PM concentration limit does not apply for multiple storage bins with combined stack emissions.

§ 60.673 Reconstruction.

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under § 60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under § 60.15, the "fixed capital cost of the new components" includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

§ 60.674 Monitoring of operations.

(a) The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices:

(1) A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

(2) A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

(b) The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under § 60.676(b).

(1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 3 of this subpart provided that the affected facility meets the criteria in paragraphs (b)(1)(i) and (ii) of this section:

(i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to paragraph (b) of this section and § 60.676(b), and

(ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under § 60.11 of this part and § 60.675 of this subpart.

(2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under § 60.676(b) must specify the control mechanism being used instead of the water sprays.

(c) Except as specified in paragraph (d) or (e) of this section, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, Appendix A-7). The Method 22 (40 CFR part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 (40 CFR part 60, Appendix A-7) test, including the date and any corrective actions taken, in the logbook required under § 60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to § 60.675(b) simultaneously with a Method 22 (40 CFR part 60, Appendix A-7) to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of this subpart. The revised visible emissions success level must be incorporated into the permit for the affected facility.

(d) As an alternative to the periodic Method 22 (40 CFR part 60, Appendix A-7) visible emissions inspections specified in paragraph (c) of this section, the owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions may use a bag leak detection system. The owner or operator must install, operate, and maintain the bag leak detection system according to paragraphs (d)(1) through (3) of this section.

(1) Each bag leak detection system must meet the specifications and requirements in paragraphs (d)(1)(i) through (viii) of this section.

(i) The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 1 milligram per dry standard cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative PM loadings. The owner or operator shall continuously record the output from the bag leak detection system using electronic or other means (e.g. , using a strip chart recorder or a data logger).

(iii) The bag leak detection system must be equipped with an alarm system that will sound when the system detects an increase in relative particulate loading over the alarm set point established according to paragraph (d)(1)(iv) of this section, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(iv) In the initial adjustment of the bag leak detection system, the owner or operator must establish, at a minimum, the baseline output by adjusting the sensitivity (range) and the averaging period of the device, the alarm set points, and the alarm delay time.

(v) Following initial adjustment, the owner or operator shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the Administrator or delegated authority except as provided in paragraph (d)(1)(vi) of this section.

(vi) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects, including temperature and humidity, according to the procedures identified in the site-specific monitoring plan required by paragraph (d)(2) of this section.

(vii) The owner or operator must install the bag leak detection sensor downstream of the fabric filter.

(viii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(2) The owner or operator of the affected facility must develop and submit to the Administrator or delegated authority for approval of a site-specific monitoring plan for each bag leak detection system. The owner or operator must operate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. Each monitoring plan must describe the items in paragraphs (d)(2)(i) through (vi) of this section.

(i) Installation of the bag leak detection system;

(ii) Initial and periodic adjustment of the bag leak detection system, including how the alarm set-point will be established;

(iii) Operation of the bag leak detection system, including quality assurance procedures;

(iv) How the bag leak detection system will be maintained, including a routine maintenance schedule and spare parts inventory list;

(v) How the bag leak detection system output will be recorded and stored; and

(vi) Corrective action procedures as specified in paragraph (d)(3) of this section. In approving the site-specific monitoring plan, the Administrator or delegated authority may allow owners and operators more than 3 hours to alleviate a specific condition that causes an alarm if the owner or operator identifies in the monitoring plan this specific condition as one that could lead to an alarm, adequately explains why it is not feasible to alleviate this condition within 3 hours of the time the alarm occurs, and demonstrates that the requested time will ensure alleviation of this condition as expeditiously as practicable.

(3) For each bag leak detection system, the owner or operator must initiate procedures to determine the cause of every alarm within 1 hour of the alarm. Except as provided in paragraph (d)(2)(vi) of this section, the owner or operator must alleviate the cause of the alarm within 3 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;

(ii) Sealing off defective bags or filter media;

(iii) Replacing defective bags or filter media or otherwise repairing the control device;

(iv) Sealing off a defective fabric filter compartment;

(v) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

(vi) Shutting down the process producing the PM emissions.

(e) As an alternative to the periodic Method 22 (40 CFR part 60, Appendix A-7) visible emissions inspections specified in paragraph (c) of this section, the owner or operator of any affected facility that is subject to the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR part 63, subpart AAAAA) may follow the continuous compliance requirements in row 1 items (i) through (iii) of Table 6 to Subpart AAAAA of 40 CFR part 63.

§ 60.675 Test methods and procedures.

(a) In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendices A-1 through A-7 of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(b) The owner or operator shall determine compliance with the PM standards in § 60.672(a) as follows:

(1) Except as specified in paragraphs (e)(3) and (4) of this section, Method 5 of Appendix A-3 of this part or Method 17 of Appendix A-6 of this part shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR part 60, Appendix A-3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.

(2) Method 9 of Appendix A-4 of this part and the procedures in § 60.11 shall be used to determine opacity.

(c)(1) In determining compliance with the particulate matter standards in § 60.672(b) or § 60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in § 60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of this part, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(2)(i) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under § 60.672(f) of this subpart, using Method 9 (40 CFR part 60, Appendix A-4), the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations shall be 1 hour (ten 6-minute averages).

(ii) The duration of the Method 9 (40 CFR part 60, Appendix A-4) observations may be reduced to the duration the affected facility operates (but not less than 30 minutes) for baghouses that control storage bins or enclosed truck or railcar loading stations that operate for less than 1 hour at a time.

(3) When determining compliance with the fugitive emissions standard for any affected facility described under § 60.672(b) or § 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages.

(d) To demonstrate compliance with the fugitive emission limits for buildings specified in § 60.672(e)(1), the owner or operator must complete the testing specified in paragraph (d)(1) and (2) of this section. Performance tests must be conducted while all affected facilities inside the building are operating.

(1) If the building encloses any affected facility that commences construction, modification, or reconstruction on or after April 22, 2008, the owner or operator of the affected facility must conduct an initial Method 9 (40 CFR part 60, Appendix A-4) performance test according to this section and § 60.11.

(2) If the building encloses only affected facilities that commenced construction, modification, or reconstruction before April 22, 2008, and the owner or operator has previously conducted an initial Method 22 (40 CFR part 60, Appendix A-7) performance test showing zero visible emissions, then the owner or operator has demonstrated compliance with the opacity limit in § 60.672(e)(1). If the owner or operator has not conducted an initial performance test for the building before April 22, 2008, then the owner or operator must conduct an initial Method 9 (40 CFR part 60, Appendix A-4) performance test according to this section and § 60.11 to show compliance with the opacity limit in § 60.672(e)(1).

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(2) A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

(i) No more than three emission points may be read concurrently.

(ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

(iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

(3) Method 5I of Appendix A-3 of this part may be used to determine the PM concentration as an alternative to the methods specified in paragraph (b)(1) of this section. Method 5I (40 CFR part 60, Appendix A-3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations.

(4) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of Appendix A-1 of this part [*i.e.*, velocity head <1.3 mm H₂O (0.05 in. H₂O)] and referred to in EPA Method 5 of Appendix A-3 of this part. For these conditions, the owner or operator may determine the average gas flow rate produced by the power fans (*e.g.*, from vendor-supplied fan curves) to the building vent. The owner or operator may calculate the average gas velocity at the building vent measurement site using Equation 1 of this section and use this average velocity in determining and maintaining isokinetic sampling rates.

$$v_e = \frac{Q_f}{A_e} \quad (\text{Eq. 1})$$

Where:

V_e = average building vent velocity (feet per minute);

Q_f = average fan flow rate (cubic feet per minute); and

A_e = area of building vent and measurement location (square feet).

(f) To comply with § 60.676(d), the owner or operator shall record the measurements as required in § 60.676(c) using the monitoring devices in § 60.674 (a)(1) and (2) during each particulate matter run and shall determine the averages.

(g) For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in § 60.7(a)(6) and 60.8(d) to a 7-day advance notification.

(h) [Reserved]

(i) If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in § 60.671 of this subpart) of the affected facility, then with approval from the permitting authority, the owner or operator may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility.

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with § 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(b)(1) Owners or operators of affected facilities (as defined in §§ 60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under § 60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.

(2) For each bag leak detection system installed and operated according to § 60.674(d), the owner or operator must keep the records specified in paragraphs (b)(2)(i) through (iii) of this section.

(i) Records of the bag leak detection system output;

(ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the cause of the alarm was alleviated within 3 hours of the alarm.

(3) The owner or operator of each affected facility demonstrating compliance according to § 60.674(e) by following the requirements for processed stone handling operations in the Lime Manufacturing NESHAP (40 CFR part 63, subpart AAAAA) must maintain records of visible emissions observations required by § 63.7132(a)(3) and (b) of 40 CFR part 63, subpart AAAAA.

(c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.

(d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss and liquid flow rate decrease by more than 30 percent from the average determined during the most recent performance test.

(e) The reports required under paragraph (d) of this section shall be postmarked within 30 days following end of the second and fourth calendar quarters.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in § 60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with § 60.672(b), (e) and (f).

(g) The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in § 60.672(b) and the emission test requirements of § 60.11.

(h) The subpart A requirement under § 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

(k) Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to § 60.4(b).

Table 1 to Subpart 000 of Part 60—Exceptions to Applicability of Subpart A to Subpart 000

Subpart A reference	Applies to subpart 000	Explanation
60.4, Address	Yes	Except in § 60.4(a) and (b) submittals need not be submitted to both the EPA Region and delegated State authority (§ 60.676(k)).
60.7, Notification and recordkeeping	Yes	Except in (a)(1) notification of the date construction or reconstruction commenced (§ 60.676(h)).
		Also, except in (a)(6) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (§ 60.675(g)).
60.8, Performance tests	Yes	Except in (d) performance tests involving only Method 9 (40 CFR part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (§ 60.675(g)).
60.11, Compliance with standards and maintenance requirements	Yes	Except in (b) under certain conditions (§§ 60.675(c)), Method 9 (40 CFR part 60, Appendix A-4) observation is reduced from 3 hours to 30 minutes for fugitive emissions.
60.18, General control device	No	Flares will not be used to comply with the emission limits.

Table 2 to Subpart 000 of Part 60—Stack Emission Limits for Affected Facilities With Capture Systems

For * * *	The owner or operator must meet a PM limit of * * *	And the owner or operator must meet an opacity limit of * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *
Affected facilities (as defined in §§ 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	0.05 g/dscm (0.022 gr/dscf) ^a	7 percent for dry control devices ^b	An initial performance test according to § 60.8 of this part and § 60.675 of this subpart; and Monitoring of wet scrubber parameters according to § 60.674(a) and § 60.676(c), (d), and (e).
Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	0.032 g/dscm (0.014 gr/dscf) ^a	Not applicable (except for individual enclosed storage bins) 7 percent for dry control devices on individual enclosed storage bins	An initial performance test according to § 60.8 of this part and § 60.675 of this subpart; and Monitoring of wet scrubber parameters according to § 60.674(a) and § 60.676(c), (d), and (e); and
			Monitoring of baghouses according to § 60.674(c), (d), or (e) and § 60.676(b).

^a Exceptions to the PM limit apply for individual enclosed storage bins and other equipment. See § 60.672(d) through (f).

^b The stack opacity limit and associated opacity testing requirements do not apply for affected facilities using wet scrubbers.

Table 3 to Subpart 000 of Part 60—Fugitive Emission Limits

For * * *	The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in	The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *

	§§ 60.670 and 60.671) * * *		
Affected facilities (as defined in §§ 60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	10 percent opacity	15 percent opacity	An initial performance test according to § 60.11 of this part and § 60.675 of this subpart.
Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to § 60.11 of this part and § 60.675 of this subpart; and Periodic inspections of water sprays according to § 60.674(b) and § 60.676(b); and
			A repeat performance test according to § 60.11 of this part and § 60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in § 60.674(b) and § 60.676(b) are exempt from this 5-year repeat testing requirement.

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

Addendum to the Technical Support Document (ATSD) for a
Federally Enforceable State Operating Permit (FESOP)

Source Background and Description

Source Name:	O-N Minerals (Portage) Company, LLC
Source Location:	165 Steel Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	1422 (Crushed and Broken Limestone)
Operating Permit No.:	F 127-19508-00038
Operating Permit Issuance Date:	May, 2013
Significant Permit Revision No.:	127-32964-00038
Permit Reviewer:	Jack Harmon

On September 30, 2013, the Office of Air Quality (OAQ) had a notice published in The Vidette Times, Portage, Indiana, stating that O-N Minerals (Portage) Company, LLC had applied for a FESOP revision to construct and operate two grinding mills at its facility. The notice also stated that the OAQ proposed to issue a FESOP revision for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

On October 14, 2013, the consultant representing the company submitted a comment to IDEM, OAQ on the draft FESOP revision.

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The comments and revised permit language are provided below with deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

The source requested to correct a typographical error in the name of one of the emission units mentioned in a footnote for Mill #8. The unit was described correctly elsewhere in the permit.

Response to Comment 1:

IDEM agrees with the recommended changes. The footnote has been changed in sections A.2, D.1, and E.1 of the permit as follows:

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:

- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:

- (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
- (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
- (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

SECTION D.1 FACILITY OPERATION CONDITIONS

- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:

- (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
- (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
- (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

SECTION E.1 EMISSION UNIT OPERATION CONDITIONS

- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:

- (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
- (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
- (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT2-07.

IDEM Contact

- (a) Questions regarding this proposed FESOP revision can be directed to Jack Harmon at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (b) A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>

- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

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

Technical Support Document (TSD) for a Significant Permit Revision to a
Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name:	O-N Minerals (Portage) Company, LLC
Source Location:	165 Steel Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	1422 (Crushed and Broken Limestone)
Operating Permit No.:	F 127-19508-00038
Operating Permit Issuance Date:	May, 2013
Significant Permit Revision No.:	127-32964-00038
Permit Reviewer:	Jack Harmon

On March 18, 2013, the Office of Air Quality (OAQ) received an application from O-N Minerals (Portage) Company, LLC related to a modification to an existing stationary non-metallic minerals processing plant. On August 18, 2013, additional information was received to add additional emission units to the project. Additional information was received September 23, 2013 to remove emission units from the permit that were removed from the plant in 2012.

Existing Approvals

The source was issued FESOP Renewal No. 127-19508-00038 on March 29, 2007. The source has since received the following approvals:

- (a) First Administrative Amendment No. 127-25681-00038, issued on January 23, 2008;
- (b) Second Administrative Amendment No. 127-28485-00038, issued on October 19, 2009;
- (c) Third Administrative Amendment No. 127-28840-00038, issued on January 22, 2010;
- (d) Fourth Administrative Amendment No. 127-28966-00038, issued on March 29, 2010; and
- (e) Fifth Administrative Amendment No. 127-29081-00038, issued on April 26, 2010.

County Attainment Status

The source is located in Porter County.

Pollutant	Designation
SO ₂	Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective May 11, 2010, for the 8-hour ozone standard. ¹
PM _{2.5}	Attainment effective February 6, 2012, for the annual PM _{2.5} standard.
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Unclassifiable or attainment effective December 31, 2011.

Pollutant	Designation
¹ Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area, including Porter County, for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) **Ozone Standards**
 U.S. EPA, in the Federal Register Notice 77 FR 112 dated June 11, 2012, has designated Porter County as nonattainment for ozone. On August 1, 2012 the air pollution control board issued an emergency rule adopting the U.S. EPA's designation. This rule became effective, August 9, 2012. IDEM does not agree with U.S. EPA's designation of nonattainment. IDEM filed a suit against US EPA in the US Court of Appeals for the DC Circuit on July 19, 2012. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's designation. Volatile organic compounds (VOC) and Nitrogen Oxides (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. Therefore, VOC and NOx emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (b) **PM_{2.5}**
 Porter County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions. These rules became effective on July 15, 2008. This rule became effective, June 28, 2011. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**
 Porter County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this 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.

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:

This PTE table is from the TSD, Appendix A of 127-28966-00038, issued on March 29, 2010.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)									
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Controlled Mill Emissions ¹	60.09	53.30	53.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Uncontrolled Mill Emissions	9.22	3.67	3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion	0.21	0.83	0.30	0.07	10.95	0.60	9.20	13,219.97	0.21	0.20 (Hexane)

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)									
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Insignificant Fugitive Emissions	22.86	5.85	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Entire Source	92.38	63.65	58.56	0.07	10.95	0.60	9.20	13,219.97	0.21	0.20 (Hexane)
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	NA	250	250	100,000	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	100	NA	NA	NA	NA	NA

*PM and PM10 are limited emissions, and are based on limits shown in FESOP No. 127-29081-00038, issued April 26, 2010.
 **The 100,000 CO₂e threshold represents the Title V and PSD subject-to-regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD, and the combustion units at this source were evaluate with this revision.

- (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(ff)(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 O-N Minerals (Portage) Company, LLC on March 18, 2013, relating to the addition of an emission unit at its manufacturing plant. The source is requesting to construct a new Grinding Mill #7 and peripheral equipment for the production of pulverized limestone. On August 18, 2013, the source submitted additional information to request to add another new Grinding Mill #8 and peripheral equipment to its application. The source has requested to adjust its limits to remain a minor source.

In FESOP Administrative Amendment No. 127-29485-00038, issued October 19, 2009, the source requested to remove the Cage Mill from the permit. Although the Cage Mill description and any applicable permit conditions were removed from the permit at that time, the emissions calculations were not changed to reflect removal of that emission unit. The source has requested to modify the emission calculations to reflect that change. There will be no changes to the permit as the result of this change; however, the emission calculations shown in this Technical Support Document (TSD) will reflect this update to potential source-wide emissions.

The following is a list of the new emission units and pollution control devices:

Mill #7

- (a) One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (b) One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001 (Note: This heater is a drying oven, applying direct heat to the process.);
- (c) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) Truck loading and unloading at plant input area, identified as FLT-07;
 - (2) One (1) Hopper/feeder, identified as FHF-07;
 - (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
 - (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
 - (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
 - (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
 - (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
 - (8) One (1) Storage increase at loadout point, identified as FSL-07; and
 - (9) One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.

Mill #8

- (d) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (e) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001 (Note: This heater is a drying oven, applying direct heat to the process.);
- (f) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

(Note: some of the conveyance and support equipment supporting Mill #8 will be shared with Mill #7. Emissions for those conveyors and support equipment have been counted with Mill #7.)

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	NO _x	VOC	CO	GHGs as CO ₂ e	Total HAPs	Worst Single HAP
Grinding Mills (#7 and #8)	1769.5	1484.8	529.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion (ENG-07, ENG-08)	0.17	0.67	0.67	0.05	8.76	0.48	7.36	10575.9	0.17	0.16 (Hexane)
Fugitive Emissions	13.74	4.36	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Proposed Revision	1783.4	1489.8	531.9	0.05	8.76	0.48	7.36	10,575.9	0.17	0.16 (Hexane)

Pursuant to 326 IAC 2-8-11.1(f)(1)(E), this FESOP is being revised through a FESOP Significant Permit Revision because the proposed revision is not an Administrative Amendment or Minor Permit revision and the proposed revision involves the construction of new emission units with potential to emit greater than or equal to twenty-five (25) tons per year of PM, PM10, and direct PM2.5.

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 accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Mill Emissions With Controls	56.28 60.09	56.28 53.30	56.28 53.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mill Emissions With No Controls	6.93 9.22	2.80 3.67	2.80 3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Natural Gas Combustion	0.01 0.21	0.03 0.83	0.03 0.30	0.00 0.07	0.44 10.95	0.02 0.60	0.37 9.20	528.80 13219.97	0.01 0.21	0.01 0.20 (Hexane)
Grinding Mills #7 and #8	8.85	7.42	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Emissions from Mills #7 and #8	13.74	4.36	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion from Mills #7 and #8	0.17	0.67	0.67	0.05	8.76	0.48	7.36	10,575.97	0.17	0.16 (Hexane)

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Total PTE of Entire Source	86.99 92.38	71.91 63.65	64.10 58.56	0.06 0.07	9.20 10.95	0.51 0.60	7.73 9.20	11,104.77 13219.97	0.18 0.24	0.17 0.20 (Hexane)
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA

*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant".
 **The 100,000 CO₂e threshold represents the Title V and PSD subject-to-regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.
 *** FESOP Administrative Amendment No. 127-29485-00038, issued October 19, 2009, the source requested to remove the Cage Mill from the permit. Although the Cage Mill description and any applicable permit conditions were removed from the permit at that time, the emissions calculations were not changed to reflect that emission unit removal. The figures in the above table represent the change in emissions due to the removal of the cage mill and related equipment.

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. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Mill Emissions With Controls	56.28	56.28	56.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mill Emissions With No Controls	6.93	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Natural Gas Combustion	0.01	0.03	0.03	0.00	0.44	0.02	0.37	528.80	0.01	0.01 (Hexane)
Grinding Mills #7 and #8	8.85	7.42	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Emissions from Mills #7 and #8	13.74	4.36	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Combustion from Mills #7 and #8	0.17	0.67	0.67	0.05	8.76	0.48	7.36	10,575.97	0.17	0.16 (Hexane)
Total PTE of Entire Source	86.99	71.91	64.10	0.06	9.20	0.51	7.73	11,104.77	0.18	0.17 (Hexane)
Title V Major Source Thresholds**	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds**	250	250	250	250	250	250	250	100,000	NA	NA

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)									
	PM	PM10*	PM2.5*	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
*Under the Part 70 Permit program (40 CFR 70), PM10 and PM2.5, not particulate matter (PM), are each considered as a "regulated air pollutant". **The 100,000 CO ₂ e threshold represents the Title V and PSD subject-to-regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

(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).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) PM10 emissions from the Grinding Mill #7 shall not exceed 0.84 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #7 is operating; therefore, the source can comply with this limit.
- (2) PM2.5 emissions from the Grinding Mill #7 shall not exceed 0.30 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #7 is operating; therefore, the source can comply with this limit.
- (3) PM10 emissions from the Grinding Mill #8 shall not exceed 0.84 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #8 is operating; therefore, the source can comply with this limit.
- (4) PM2.5 emissions from the Grinding Mill #8 shall not exceed 0.30 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #8 is operating; therefore, the source can comply with this limit.

Compliance with these limits, combined with the potential to emit PM10, and PM2.5 from all other emission units at this source, shall limit the source-wide total potential to emit of PM10, and PM2.5 to less than 100 tons per 12 consecutive month period, each, any single HAP to less than ten (10) tons per 12 consecutive month period, total HAPs to less than twenty-five (25) tons per 12 consecutive month period, greenhouse gases (GHGs) to less than 100,000 tons of CO₂ equivalent emissions (CO₂e) per 12 consecutive month period, and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 326 IAC 2-3 (Emission Offset), and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable.

The source shall continue to comply with the requirements of FESOP 127-29081-00038, issued April 26, 2010.

(b) PSD Minor Source

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the source shall comply with the following:

- (1) PM emissions from the Grinding Mill #7 shall not exceed 1.01 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #7 is operating; therefore, the source can comply with this limit.
- (2) PM emissions from the Grinding Mill #8 shall not exceed 1.01 pounds per hour, when operating at a process throughput of 25 tons per hour. The baghouse shall operate at all times that Mill #8 is operating; therefore, the source can comply with this limit.

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 100 tons per 12 consecutive month period, and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The Grinding Mill #7 and the Grinding Mill #8 are subject to the New Source Performance Standards for Non-metallic Mineral Processing (40 CFR 60, Subpart OOO), because the grinding mills process non-metallic minerals in the limestone pulverization process.

Applicable portions of the NSPS are the following:

- (1) 40 CFR 60.670
- (2) 40 CFR 60.671
- (3) 40 CFR 60.672
- (4) 40 CFR 60.673
- (5) 40 CFR 60.674
- (6) 40 CFR 60.675
- (7) Table 1
- (8) Table 2
- (9) Table 3

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the grinding mills #7 and #8 except as otherwise specified in 40 CFR 60, Subpart OOO.

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Limestone Production, 40 CFR 63, Subpart AAAAA, are not included for this proposed revision, since this source is not a major source for HAPs and because the source does not operate a pulp mill. Therefore, the requirements of 40 CFR 63, Subpart AAAAA do not apply.
- (d) There are no other 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)

- (e) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to 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

- (a) 326 IAC 2-8-4 (FESOP)
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). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (b) 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 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. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (c) 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 new units 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.
- (d) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in Porter County, it has actual emissions of NO_x and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (e) 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:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (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.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Due to this revision, the source is subject to the requirements of 326 IAC 6-4, because the fugitive dust from the emission units supporting Grinding Mills #7 and #8 have the potential to emit fugitive particulate emissions. 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.
- (g) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
Due to this revision, the source is subject to the requirements of 326 IAC 6-5, because the fugitive dust from the emission units supporting the grinding mills at this source have potential fugitive particulate emissions greater than 25 tons per year. Pursuant to 326 IAC 6-5, fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan, submitted in January, 2010, which is included as Attachment A to the permit.

Process Heaters Eng-07 and Eng-08

- (h) 326 IAC 6-2 (Particulate Emission Limitations for Indirect Process Heaters)
 The two process heaters in this revision are not subject to the provisions of 326 IAC 6-2 because these process heaters apply direct heat to the process. Therefore, the provisions of 326 IAC 6-2 do not apply.

Grinding Mills and Supporting Equipment

- (i) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grinding mills and the conveyance and support equipment shall not exceed the following pounds per hour when operating at a process weight rate, as indicated in the table below. The pound per hour limitation was calculated with the following equation:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Emission Unit Description	Process Weight Rate (tons/hr)	PM Emission Limit Under 326 IAC 6-3-2 (lb/hr)	Can Comply Without Control Device? (Y/N)
Enclosed Mill System (Mill 1)	15.0	25.16	Y
Silo (01-FPT-001)	12.5	22.27	Y
Dust-Free Loadout System (01-DFL-001)	12.5	22.27	Y
Enclosed Mill System (Mill 2)	15.0	25.16	Y
Silo (02-FPT-001)	12.5	22.27	Y
Enclosed Mill System (Mill 3)	15.0	25.16	Y
Silo (03-FPT-001)	12.5	22.27	Y
Dust-Free Loadout System (03-DFL-001)	12.5	22.27	Y
Belt Conveyor (03-RBF-001)	12.5	22.27	Y
Product Lump Breaker (03-PLB-001)	12.5	22.27	Y
Bucket Elevator (03-BEL-001)	12.5	22.27	Y
Inside Feed Tank (03-MFT-001)	12.5	22.27	Y
Belt Conveyor (03-RBC-001)	12.5	22.27	Y
Enclosed Mill System (Mill 5)	25.0	35.43	Y
Silo (05-FPT-001)	25.0	35.43	Y
Silo (05-FPT-002)	25.0	35.43	Y
Dust-Free Loadout System (05-DFL-001)	25.0	35.43	Y
Belt Conveyor (05-RBF-001)	25.0	35.43	Y
Bucket Elevator (05-BEL-001)	25.0	35.43	Y

Inside Feed Tank (05-MFT-001)	25.0	35.43	Y
Enclosed Mill System (Mill 6)	25.0	35.43	Y
Silo (02-FPT-002)	25.0	35.43	Y
Dust-Free Loadout System (02-DFL-001)	25.0	35.43	Y
Enclosed Mill 7 System (EGM-07)	25.0	35.43	N
Truck Load and Unload (FLT-07)	25.0	35.43	Y
Hopper/Feeder ((FHF-07)	25.0	35.43	Y
Belt/Feeder (FBF-07)	25.0	35.43	Y
Belt Conveyor (FBC-07)	25.0	35.43	Y
Feed Bin (FFV-07)	25.0	35.43	Y
Vibrating Feeder (FVT-07)	25.0	35.43	Y
Pneumatic Conveyor (FPC-07)	25.0	35.43	Y
Storage at Loadout (FSL-07)	25.0	35.43	Y
Enclosed Mill 8 System (EGM-08)	25.0	35.43	N
Feed Bin (FFV-08)	25.0	35.43	Y
Vibrating Feeder (FVT-08)	25.0	35.43	Y
Pneumatic Conveyor (FPC-08)	25.0	35.43	Y

The baghouse shall be in operation at all times the grinding mill #7 and/or grinding mill #8 are in operation, in order to comply with this limit.

Based on calculations, control devices are not needed to comply with this limit for the other emission units shown above.

(Note: The grinding mills #7 and #8 and supporting equipment in this revision are subject to the provisions of 326 IAC 6-3-2. However, the other mills and supporting equipment at this source are also subject to 326 IAC 6-3-2, but were never included in the permit, and are being included in this Significant Permit Revision.)

- (j) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
 The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the unlimited VOC potential emissions from each new unit is less than twenty-five (25) tons per year.
- (k) There are no other 326 IAC 8 Rules that are applicable to the revision.

Compliance Determination, Monitoring and Testing Requirements
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- (a) The compliance determination and monitoring requirements applicable to this proposed revision are as follows:

Emission Unit/Control	Operating Parameters	Frequency
Baghouses	Pressure Drop (4 to 6")	Once per day
Stacks	Visible Emissions	Once per day

- (b) The testing requirements applicable to this proposed revision are as follows:

Testing Requirements				
Emission Unit	Control Device	Pollutant	Timeframe for Testing	Frequency of Testing
Stack MDC-001 (serving Mill #7 and Mill #8)	Baghouse	PM, PM10, PM2/5	180 days after startup	Every 5 years

The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: 127-29081-00038, issued on April 26, 2010.

Proposed Changes

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

Revision No. 1:

The source has requested to add grinding mill #7, grinding mill #8, and various conveyors and support equipment to its operation. Sections A.2, D.1, and E.1 of the permit have been changed to reflect this change. Additionally, various conditions in Section D.1 have been changed or modified to reflect state rule applicability due to this change.

Revision No. 2:

Since the issuance of the existing permit, IDEM, OAQ has standardized its permits to remove any applicable New Source Performance Standards (NSPS) or National Emission Standards for Hazardous Air Pollutants (NESHAP) from the D-Section of the permit and add its own section in the E-Section of the permit. The source is subject to NSPS 40 CFR 60, Subpart OOO. Section D.1 of the permit has been modified to remove the references relating to the NSPS from the D.1.x conditions, and a new E.1 Section has been added. Subsequent D.1 conditions have been renumbered accordingly. Additionally, Porter County has been declared to be attainment for all criteria pollutants. Section A.1 has been changed to reflect this status change.

Revision No. 3:

The mill systems and supporting emission units of the entire facility are subject to the provisions of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes). However, the existing permit prior to this revision did not contain permit conditions enforcing these emission limits. Therefore, the calculated emission limits for the entire facility have been incorporated into the permit with this revision. This is a Title I change. A condition has been added to Section D.1 of the permit to reflect the applicability of 326 IAC 6-3-2.

Revision No. 4:

Additional information was received on September 23, 2013, requesting to remove several items from the permit that were removed from the plant in 2012. These items were removed from Sections A.2, D.1, and E.1 of the permit. Subsequent emission units were re-numbered due to this change.

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

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

The Permittee owns and operates a stationary non-metallic minerals processing plant.

Source Address: 165 Steel Drive, Portage, Indiana 46368
 Mailing Address: ~~165 Steel Drive, Portage, Indiana 46368~~

General Source Phone Number: 219-787-9190
SIC Code: 1422
County Location: Porter
Source Location Status: ~~Moderate nonattainment for the 8-hour ozone standard~~
~~Basic nonattainment for PM_{2.5}~~
Source Status: Attainment for all other criteria pollutants
Federally Enforceable State Operating Permit Program
Minor Source, under PSD and Emission Offset Rules
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:

- (n) One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- ~~(o) One (1) inside rock hopper, identified as 03-IRH-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(p) One (1) belt conveyor, identified as 03-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(q) One (1) product lump breaker, identified as 03-PLB-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(r) One (1) bucket elevator, identified as 03-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(s) One (1) inside feed tank, identified as 03-MFT-001, installed in April 1992, storage capacity: 60 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(t) One (1) belt conveyor, identified as 03-RBC-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~

Note: There is no Mill 4.

Mill 5

- ~~(u)~~ One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- ~~(v)~~ Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.
- ~~(w)~~ One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.

- (~~xr~~) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~ys~~) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~zt~~) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~aa~~u) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (~~bb~~v) One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.

Storage Silo (Tank 6) and North Scale Loadout

- (~~ee~~ww) One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.
- (~~dd~~x) One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.

Mill 7

- (y) **One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;**
- (z) **One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);**
- (aa) **Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:**
 - (1) **Truck loading and unloading at plant input area, identified as FLT-07;**
 - (2) **One (1) Hopper/feeder, identified as FHF-07;**
 - (3) **One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;**
 - (4) **One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;**
 - (5) **One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;**
 - (6) **One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;**
 - (7) **One (1) Pneumatic conveyor transfer, identified as FPC-07;**
 - (8) **One (1) Storage increase at loadout point, identified as FSL-07; and**
 - (9) **One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.**

Mill 8

- (bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001 (Note: This heater is a drying oven, applying direct heat to the process.);
- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

SECTION D.1 FACILITY OPERATION CONDITIONS

- (n) One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- ~~(o) One (1) inside rock hopper, identified as 03-IRH-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(p) One (1) belt conveyor, identified as 03-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(q) One (1) product lump breaker, identified as 03-PLB-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(r) One (1) bucket elevator, identified as 03-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(s) One (1) inside feed tank, identified as 03-MFT-001, installed in April 1992, storage capacity: 60 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.~~
- ~~(t) One (1) belt conveyor, identified as 03-RBC-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.~~

Note: There is no Mill 4.

Mill 5

- (~~uo~~) One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (~~vp~~) Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.
- (~~wq~~) One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~xr~~) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~ys~~) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~zt~~) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (~~aa~~u) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (~~bb~~v) One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.

Storage Silo (Tank 6) and North Scale Loadout

- (~~ee~~ww) One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.
- (~~dd~~x) One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.

Mill 7

- (y) **One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;**

- (z) One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);
- (aa) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) Truck loading and unloading at plant input area, identified as FLT-07;
 - (2) One (1) Hopper/feeder, identified as FHF-07;
 - (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
 - (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
 - (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
 - (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
 - (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
 - (8) One (1) Storage increase at loadout point, identified as FSL-07; and
 - (9) One (1) Truck traffic increase on unpaved roads, identified as FTT-07.

Mill 8

- (bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;
- (cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001 (Note: This heater is a drying oven, applying direct heat to the process.);
- (dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:
 - (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
 - (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
 - (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

Emission Limitations and Standards [326 IAC 2-8-5(1)]

~~D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]~~

~~The provisions of 40 CFR 60, Subpart A—General Provisions, which are incorporated as 326 IAC 12-1, apply to the Mills 1, 2, 3, 5 and 6, described in this section except when otherwise specified in 40 CFR 60.670 through 60.676, Subpart OOO.~~

~~D.1.2 NSPS Subpart OOO and 326 IAC 12~~

~~This source, consisting of Mills 1, 2, 3, 5 and 6, is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO. This rule requires that:~~

- (a) ~~Particulate matter (PM) emissions to the atmosphere from any capture system shall be limited to 0.05 grams per dry standard cubic meter or seven percent (7%) opacity.~~
- (b) ~~On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of 40 CFR 60.672.~~
- (c) ~~On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.~~
- (d) ~~Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this condition.~~
- (e) ~~If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c) of 40 CFR 60.672, or the building enclosing the affected facility or facilities must comply with the following emission limits:~~
 - (1) ~~No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in 40 CFR 60.671.~~
 - (2) ~~No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a).~~
- (f) ~~On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.~~
- (g) ~~Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (a) of 40 CFR 60.672.~~
- (h) ~~On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:~~
 - (1) ~~Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.~~
 - (2) ~~Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher,~~

~~grinding mill, or storage bin in the production line.~~

D.1.31 PM₁₀ and PM_{2.5} Limitations [326 IAC 2-8-4]

(a) The following emission units shall not exceed the following hourly PM₁₀ and PM_{2.5} limits:

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)	Hourly PM _{2.5} Emission Limit (lbs/hr)
Mill 1	0.75	0.75
01-FPT-001	0.42	0.42
01-DFL-001	0.25	0.25
Mill 2	0.75	0.75
02-FPT-001	0.42	0.42
Mill 3	0.75	0.75
03-FPT-001	0.42	0.42
Mill 5	2.84	2.84
05-FPT-001	0.72	0.72
05-FPT-002	0.72	0.72
05-DFL-001	0.25	0.25
Mill 6	2.84	2.84
02-FPT-002	0.52	0.52
02-DFL-001	0.27	0.27
Grinding Mill #7	0.84	0.30
Grinding Mill #8	0.84	0.30

(b) Compliance with these PM₁₀ and PM_{2.5} emission limits will keep the PM₁₀ and PM_{2.5} emissions from the source to less than one hundred (100) tons per year and renders the requirements of 326 IAC 2-7 not applicable.

D.1.42 PSD Minor PM and PM₁₀ Limits [326 IAC 2-2]

(a) The following emission units shall not exceed the following hourly PM and PM₁₀ limits:

Facility	Hourly PM Emission Limit (lbs/hr)	Hourly PM ₁₀ Emission Limit (lbs/hr)
Mill 1	0.85	0.75
01-FPT-001	0.47	0.42
01-DFL-001	0.28	0.25
Mill 2	0.85	0.75
02-FPT-001	0.47	0.42
Mill 3	0.85	0.75
03-FPT-001	0.47	0.42
03-DFL-001	0.28	0.25
Mill 5	3.21	2.84
05-FPT-001	0.81	0.72
05-FPT-002	0.81	0.72
05-DFL-001	0.28	0.25
Mill 6	3.21	2.84
02-FPT-002	0.58	0.52
02-DFL-001	0.30	0.27
Grinding Mill #7	1.01	0.84
Grinding Mill #8	1.01	0.84

(b) Compliance with the above PM and PM₁₀ emission limits together with the potential to emit of the uncontrolled emission units and insignificant activities shall keep the total PM and PM₁₀ potential to emit less than two hundred fifty (250) tons per year and less than one hundred (100) tons per year, respectively, and renders the requirements of 326 IAC 2-2 not applicable.

D.1.3 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the grinding mills and the conveyance and support equipment shall not exceed the following pounds per hour when operating at a process weight rate, as indicated in the table below. The pound per hour limitation was calculated with the following equation:

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

$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

Emission Unit Description	Process Weight Rate (tons/hr)	PM Emission Limit Under 326 IAC 6-3-2 (lb/hr)
Enclosed Mill System (Mill 1)	15.0	25.16
Silo (01-FPT-001)	12.5	22.27
Dust-Free Loadout System (01-DFL-001)	12.5	22.27
Enclosed Mill System (Mill 2)	15.0	25.16
Silo (02-FPT-001)	12.5	22.27
Enclosed Mill System (Mill 3)	15.0	25.16
Silo (03-FPT-001)	12.5	22.27
Dust-Free Loadout System (03-DFL-001)	12.5	22.27
Belt Conveyor (03-RBF-001)	12.5	22.27
Product Lump Breaker (03-PLB-001)	12.5	22.27
Bucket Elevator (03-BEL-001)	12.5	22.27
Inside Feed Tank (03-MFT-001)	12.5	22.27
Belt Conveyor (03-RBC-001)	12.5	22.27
Enclosed Mill System (Mill 5)	25.0	35.43
Silo (05-FPT-001)	25.0	35.43
Silo (05-FPT-002)	25.0	35.43
Dust-Free Loadout System (05-DFL-001)	25.0	35.43
Belt Conveyor (05-RBF-001)	25.0	35.43
Bucket Elevator (05-BEL-001)	25.0	35.43
Inside Feed Tank (05-MFT-001)	25.0	35.43
Enclosed Mill System (Mill 6)	25.0	35.43
Silo (02-FPT-002)	25.0	35.43
Dust-Free Loadout System (02-DFL-001)	25.0	35.43
Enclosed Mill 7 System (EGM-07)	25.0	35.43
Truck Load and Unload (FLT-07)	25.0	35.43
Hopper/Feeder (FHF-07)	25.0	35.43
Belt/Feeder (FBF-07)	25.0	35.43
Belt Conveyor (FBC-07)	25.0	35.43
Feed Bin (FFV-07)	25.0	35.43
Vibrating Feeder (FVT-07)	25.0	35.43
Pneumatic Conveyor (FPC-07)	25.0	35.43
Storage at Loadout (FSL-07)	25.0	35.43

Enclosed Mill 8 System (EGM-08)	25.0	35.43
Feed Bin (FFV-08)	25.0	35.43
Vibrating Feeder (FVT-08)	25.0	35.43
Pneumatic Conveyor (FPC-08)	25.0	35.43

The baghouse shall be in operation at all times the grinding mill #7 and/or grinding mill #8 are in operation, in order to comply with this limit.

D.1.54 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan is required for the following facilities and any control devices:

- (a) At the Mill 1 Facilities: Mill 1, 01-FPT-001 and 01-DFL-001
- (b) At the Mill 2 Facilities: Mill 2 and 02-FPT-001
- (c) At the Mill 3 Facilities: Mill 3, 03-FPT-001 and 03-DFL-001
- (d) At the Mill 5 Facilities: Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001
- (e) Mill 6
- (f) Storage Silo (Tank 6) and North Scale Loadout: 02-FPT-002 and 02-DFL-001
- (g) Grinding Mill #7 (EGM-07)**
- (h) Grinding Mill #8 (EGM-08)**

Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the Preventive Maintenance Plan.

~~Compliance Determination Requirements [326 IAC 2-8-5(a)(1) & (4)] [326 IAC 2-1.1-11]~~

~~D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11] [326 IAC 12] [40 CFR 60, Subpart OOO]~~

- ~~(a) By June 25, 26 and 27, 2008, in order to demonstrate compliance with the NSPS Subpart OOO requirements, the Permittee shall perform PM and opacity testing for all facilities in Mill 1, Mill 2 and Mill 3, respectively, utilizing methods contained in 40 CFR 60.675. These PM and opacity performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligations with regard to performance testing.~~
- ~~(b) By September 22, 2010, in order to demonstrate compliance with the NSPS Subpart OOO requirements, the Permittee shall perform PM and opacity testing for all facilities in Mill 5 utilizing methods contained in 40 CFR 60.675. These PM and opacity performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligations with regard to performance testing.~~
- ~~(c) By December 17, 2007, in order to demonstrate compliance with the NSPS Subpart OOO requirements, the Permittee shall perform PM and opacity testing for all facilities in Mill 6 utilizing methods contained in 40 CFR 60.675. These PM and opacity performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Section C - Performance Testing contains the Permittee's obligations with regard to performance testing.~~

- ~~(d) — By June 25, 26 and 27, 2008, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM_{4.0} testing on all facilities controlled by baghouses in Mills 1, 2 and 3 (Mill 1, Mill 2 and Mill 3) utilizing methods as approved by the Commissioner. These PM_{4.0} performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{4.0} includes filterable and condensable PM_{4.0}. Section C — Performance Testing contains the Permittee's obligations with regard to performance testing.~~
- ~~(e) — By September 22, 2010, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM_{4.0} testing on all facilities controlled by baghouses in Mill 5 (Mill 5) utilizing methods as approved by the Commissioner. These PM_{4.0} performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{4.0} includes filterable and condensable PM_{4.0}. Section C — Performance Testing contains the Permittee's obligations with regard to performance testing.~~
- ~~(f) — By December 17, 2007, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM_{4.0} testing on all facilities controlled by baghouses in Mill 6 (Mill 6) utilizing methods as approved by the Commissioner. These PM_{4.0} performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{4.0} includes filterable and condensable PM_{4.0}. Section C — Performance Testing contains the Permittee's obligations with regard to performance testing.~~
- ~~(g) — By November 10, 2005 (within 90 days after the August 10, 2005 issuance of SPR 127-21182-00038), pursuant to the U.S. EPA waiver, issued on May 2, 2005, the Permittee shall conduct a Method 9 test, according to the requirements provided in 40 CFR Part 60.675(b) (2), on each of the four (4) truck loadout dust collectors, identified as 01-DLF-001, 03-DLF-001, 05-DLF-001 and 02-DLF-001, and subsequently once per quarter for a total of four (4) quarters.~~
- ~~(1) — Testing can be reduced to twice a year (semi-annual) if four (4) quarters of quarterly sampling and results indicate opacity percentages are below the seven (7%) percent opacity standard specified in 40 CFR Part 60.672(a)(2).~~
- ~~(2) — If any Method 9 test results are above the seven (7%) percent opacity standard in Part 60.672(a)(2), the U.S. EPA must be notified at the following address and the waiver will be reconsidered:~~

~~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~~

~~D.1.7 — Test Methods and Procedures for NSPS Subpart OOO [40 CFR 60.675]~~

- ~~(a) — In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.~~
- ~~(b) — The owner or operator shall determine compliance with the particulate matter standards in §60.672(a) as follows:~~
- ~~(1) — Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is~~

~~above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.~~

- ~~(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.~~
- ~~(c) (1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:~~
 - ~~(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).~~
 - ~~(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.~~
 - ~~(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.~~
- ~~(2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under §60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6 minute averages).~~
- ~~(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6 minute averages) to 1 hour (ten 6 minute averages) only if the following conditions apply:~~
 - ~~(i) There are no individual readings greater than 10 percent opacity; and~~
 - ~~(ii) There are no more than 3 readings of 10 percent for the 1-hour period.~~
- ~~(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6 minute averages) to 1 hour (ten 6 minute averages) only if the following conditions apply:~~
 - ~~(i) There are no individual readings greater than 15 percent opacity; and~~
 - ~~(ii) There are no more than 3 readings of 15 percent for the 1-hour period.~~
- ~~(d) In determining compliance with §60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.~~
- ~~(e) The owner or operator may use the following as alternatives to the reference methods~~

~~and procedures specified in this section:~~

- ~~(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:~~
 - ~~(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.~~
 - ~~(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.~~
- ~~(f) To comply with §60.676(d), the owner or operator shall record the measurements as required in §60.676(c) using the monitoring devices in §60.674 (a) and (b) during each particulate matter run and shall determine the averages.~~
- ~~(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.~~
- ~~(h) Initial Method 9 performance tests under §60.11 of this part and §60.675 of this subpart are not required for:~~
 - ~~(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.~~
 - ~~(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.~~

Compliance Determination Requirements [326 IAC 2-8-5(a)(1) & (4)] [326 IAC 2-1.1-11]

D.1.85 Particulate Control

- (a) In order to comply with Conditions D.1.21, D.1.32 and D.1.43, the baghouses associated with Mills 1, 2, 3, 5, 6, 7, and/or 68 for PM and PM₁₀ control shall be in operation at all times when their respective Mills 1, 2, 3, 5, 6, 7, and/or 68 are in operation.
- (b) In order to comply with Conditions D.1.21, D.1.32 and D.1.43, the cartridge filters associated with Mills 1, 2, 3, 5 and/or 6 for PM and PM₁₀ control shall be in operation at all times when their respective Mills 1, 2, 3, and/or 5 are in operation.
- (c) In order to comply with Conditions D.1.21, D.1.32 and D.1.43, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the truck loadout (02-BNV-003) at all times when the truck loadout is in operation.
- (d) In order to comply with Conditions D.1.21, D.1.32 and D.1.43, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the storage silo (02-BNV-002) at all times when the silo is in operation.
- (e) 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 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11

In order to demonstrate the compliance status with Conditions D.1.1, D.1.2, and D.1.3, the Permittee shall perform stack testing on stack MDC-001 for PM, PM10, and PM2.5 within 180 days after startup of Grinding Mills #7 and #8. The testing shall be repeated no later than every 5 years from the date of the last demonstration of compliance.

Compliance Monitoring Requirements [326 IAC 2-8-6(1)] [326 IAC 2-8-5(1)]

D.1.97 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts for Mill 1 (01-MDC-001, 01-BNV-001 and 01-BNV-002), for Mill 2 (02-MDC-001 and 02-BNV-001), for Mill 3 (03-MDC-001, 03-BNV-001 and 03-BNV-002), for Mill 5 (05-MDC-001, 05-BNV-001, 05-BNV-002 and 05-BNV-003), for Mill 6 (06-MDC-001), for the Storage Silo (Tank 6) (02-BNV-002) and for the North Scale Loadout (02-BNV-003), **for Mill 7 (MDC-001), and Mill 8 (MDC-001)** shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

D.1.408 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with Mill 1, 2, 3 and 5 operations, at least once per day when Mill 1, 2, 3 and 5 is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses and cartridge filters is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with Mill 6, at least once per day while the Mill 6 is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

- (c) The Permittee shall record the pressure drop across the baghouse used in conjunction with Mill 6, at least once per day while the Mill 7 and Mill 8 are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 4.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.**

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

- (ed) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with the Storage Silo (Tank 6) (02-BNV-002) and the North Scale Loadout (02-BNV-003), at least once per day while the facilities are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C - Response to Excursions or Exceedances contains the Permittee's obligations regarding responding to excursions or exceedances.

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

D.1.449 Broken or Failed Bag Detection

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

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

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

Record Keeping and Reporting Requirement [326 IAC 2-8-5(3)] [326 IAC 2-8-19]

D.1.4210 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.97, the Permittee shall maintain daily records of visible emission notations of the stack exhausts for Mill 1 (01-MDC-001, 01-BNV-001 and 01-BNV-002), for Mill 2 (02-MDC-001 and 02-BNV-001), for Mill 3 (03-MDC-001, 03-BNV-001 and 03-BNV-002), for Mill 5 (05-MDC-001, 05-BNV-001, 05-BNV-002 and 05-BNV-003), Mill 6 (06-MDC-001), for the Storage Silo (Tank 6) (02-BNV-002,) and for the North Scale Loadout (02-BNV-003), **for Mill 7 (MDC-001), and Mill 8 (MDC-001)**. 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.1.408, the Permittee shall maintain records once per day of the pressure drop during normal operation when venting to the atmosphere. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations regarding record keeping.

~~D.1.13 Reporting and Recordkeeping Requirements [326 IAC 12] [40 CFR 60.676]~~

- ~~(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment:
 - ~~(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - ~~(A) The rated capacity in megagrams or tons per hour of the existing facility being replaced and~~
 - ~~(B) The rated capacity in tons per hour of the replacement equipment.~~~~
 - ~~(2) For a screening operation:
 - ~~(A) The total surface area of the top screen of the existing screening operation being replaced and~~
 - ~~(B) The total surface area of the top screen of the replacement screening operation.~~~~
 - ~~(3) For a conveyor belt:
 - ~~(A) The width of the existing belt being replaced and~~~~~~

- ~~(B) — The width of the replacement conveyor belt.~~
- ~~(4) — For a storage bin:
 - ~~(A) — The rated capacity in megagrams or tons of the existing storage bin being replaced and~~
 - ~~(B) — The rated capacity in megagrams or tons of replacement storage bins.~~~~
- ~~(b) — The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).~~
- ~~(c) — The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to §60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of §60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).~~
- ~~(d) — The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.~~
- ~~(e) — A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.
 - ~~(1) — For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.~~
 - ~~(2) — For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.~~~~
- ~~(f) — The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.~~

Section E.1 EMISSION UNIT OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4]

Facility Description [326 IAC 2-8-4(10)]: Mills 1, 2, 3, 5, 6, 7, and 8; Storage Tank (Tank 6) and North Scale Loadout

Boat-Unloading System

- (a) One (1) belt conveyor system, consisting of one (1) loadout hopper and three (3) belt conveyors for a total of four (4) transfer points, delivering uncrushed material directly from a barge to an initial stockpile, installed in 2003, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, identified as Mill 1, equipped with a baghouse for particulate matter control, exhausted through Stack 01-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding product line.
- (c) One (1) storage silo bin, identified as 01-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 01-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.
- (d) One (1) dust-free loadout, identified as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (e) One (1) outside rock hopper, identified as 01-ORH-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (f) One (1) belt conveyor, identified as 01-RBF-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (g) One (1) mill feed tank, identified as 01-MFT-001, installed in April 1992, storage capacity: 300 tons of non-metallic minerals, throughput capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (h) One (1) bucket elevator, identified as 01-BEL-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.
- (i) One (1) belt conveyor, identified as 01-RBC-001, installed in April 1992, capacity: 37.5 tons of non-metallic minerals per hour. Also utilized by Mills 2 and 3.

Mill 2

- (j) One (1) enclosed mill system, identified as Mill 2, equipped with a baghouse for particulate matter control, exhausted through Stack 02-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (k) One (1) storage silo bin, identified as 02-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 02-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-metallic minerals per hour.

Mill 3

- (l) One (1) enclosed mill system, identified as Mill 3, equipped with a baghouse for particulate matter control, exhausted through Stack 03-MDC-001, installed in April 1992, capacity 15 tons of non-metallic minerals per hour, and including one (1) Model No. CF-96-C mechanical cyclone feeding into one (1) dust collector hopper and airlock feeding production line.
- (m) One (1) storage silo bin, identified as 03-FPT-001, equipped with a cartridge filter for particulate matter control, exhausted through Stack 03-BNV-001, installed in April 1992, storage capacity: 800 tons of non-metallic minerals, throughput capacity: 12.5 tons of non-

metallic minerals per hour.

- (n) **One (1) dust-free loadout, identified as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.**

Note: There is no Mill 4.

Mill 5

- (o) **One (1) enclosed mill system, identified as Mill 5, equipped with a baghouse for particulate matter control, exhausted through Stack 05-MDC-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.**
- (p) **Two (2) storage silo bins, identified as 05-FPT-001 and 05-FPT-002, each equipped with a cartridge filter for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed in March 1997, storage capacity: 800 tons of non-metallic minerals each, throughput capacity: 25 tons of non-metallic minerals per hour each.**
- (q) **One (1) dust-free loadout, identified as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.**
- (r) **One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.**
- (s) **One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.**
- (t) **One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.**
- (u) **One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 70 tons of non-metallic minerals per hour. Also utilized by Mill 6.**

Mill 6

- (v) **One (1) enclosed mill system, identified as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through Stack 06-MDC-001, and truck loading and unloading operations (05-DFL-001), installed in 2002, capacity: 25 tons of non-metallic minerals per hour.**

Storage Silo (Tank 6) and North Scale Loadout

- (w) **One (1) 1,000 ton storage silo, identified as 02-FPT-002, equipped with a cartridge filter, identified as 02-BNV-002, for particulate matter control and exhausted through Stack 02-BNV-002, installed in 2004, capacity: 25 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.**
- (x) **One (1) truck loadout system, identified as 02-DFL-001, equipped with a baghouse, identified as 02-BNV-003, for particulate matter control and exhausted through Stack 02-BNV-003, installed in 2004, capacity: 50 tons of non-metallic minerals per hour. Utilized by Mill 2 and Mill 3.**

Mill 7

- (y) **One (1) enclosed grinding mill system, identified as EGM-07, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;**
- (z) **One (1) natural gas-fired process heater, identified as ENG-07, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using fabric filters for control, and exhausting through stack MSC-001. (Note: This heater is a**

drying oven, applying direct heat to the process.);

(aa) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:

- (1) Truck loading and unloading at plant input area, identified as FLT-07;
- (2) One (1) Hopper/feeder, identified as FHF-07;
- (3) One (1) Belt feeder to belt conveyor transfer, identified as FBF-07;
- (4) One (1) Belt conveyor C1 to feed bin transfer, identified as FBC-07;
- (5) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-07;
- (6) One (1) Vibrating feeder to Mill #7 transfer, identified as FVT-07;
- (7) One (1) Pneumatic conveyor transfer, identified as FPC-07;
- (8) One (1) Storage increase at loadout point, identified as FSL-07; and
- (9) One (1) Truck traffic increase on unpaved roads, identified as FTT2-07.

Mill 8

(bb) One (1) enclosed grinding mill system, identified as EGM-08, approved in 2013 for construction, with a maximum throughput capacity of 25 tons per hour, using a baghouse for particulate control, and exhausting through stack MDC-001;

(cc) One (1) natural gas-fired process heater, identified as ENG-08, approved in 2013 for construction, with a maximum heat input capacity of 10.0 MMBtu/hr, using no controls, and exhausting through stack MSC-001. (Note: This heater is a drying oven, applying direct heat to the process.);

(dd) Fugitive dust sources from conveyance and support equipment, all approved in 2013 for construction, each with a maximum throughput capacity of 25 tons per hour, as follows:

- (1) One (1) Feed bin to vibrating conveyor transfer, identified as FFV-08;
- (2) One (1) Vibrating feeder to Mill #8 transfer, identified as FVT-08; and
- (3) One (1) Pneumatic conveyor transfer, identified as FPC-08.

Note: Mill 7 and Mill 8 share similar conveyance and support equipment in series. Specifically, the following as described in Section (aa) above: FLT-07, FHF-07, FBF-07, FBC-07, and FTT-07.

Under 40 CFR 60, Subpart OOO, these are considered affected facilities.

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

E.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the Mills 1, 2, 3, 5, 6, 7, and 8 described in this section except when otherwise specified in 40 CFR 60.670 through 60.676, Subpart OOO.

E.1.2 NSPS Subpart OOO and 326 IAC 12

This source, consisting of Mills 1, 2, 3, 5, 6, 7, and 8 is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO.

Applicable portions of the NSPS, Subpart OOO are as follows:

- (1) 40 CFR 60.670
- (2) 40 CFR 60.671

- (3) 40 CFR 60.672
- (4) 40 CFR 60.673
- (5) 40 CFR 60.674
- (6) 40 CFR 60.675
- (7) Table 1
- (8) Table 2
- (9) Table 3

40 CFR 60, Subpart 000 is shown in its entirety in Attachment B of this permit.

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

O-N Minerals (Portage) Company LLC
165 Steel Drive
Portage, Indiana 46368

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for _____.
(Title) (Company Name)
3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____.
(Company Name)
4. I hereby certify that O-N Minerals (Portage) Company 46368, completed construction of the Grinding Mill #7 and Grinding Mill #8 and support equipment on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on March 18, 2013 and as permitted pursuant to New Source Construction Permit and FESOP No. F127-32964-00038, Plant ID No. 127-00038, issued on _____.
5. Additional (operations/facilities) were constructed/substituted as described in the attachment to this document and were not made in accordance with the construction permit.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____
Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 20____. My Commission expires: _____.

Signature _____
Name _____ (typed or printed)

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 18, 2013. Additional information was received on August 18 and September 23, 2013.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 127-32964-00038. The staff recommends to the Commissioner that this FESOP Significant Permit Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jack Harmon at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCM 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (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

**Attachment: Emissions Calculations
Emission Summary After the Revision**

**Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013**

Potential to Emit from Entire Source (tons per year)											
Emission Unit	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHG	Total HAPs	Worst HAP	
Mill Emissions With Controls	56.28	56.28	56.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mill Emissions With No Controls	6.93	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Natural Gas Combustion	0.01	0.03	0.03	0.00	0.44	0.02	0.37	528.80	0.01	0.01	(Hexane)
Fugitive Emissions	22.86	5.85	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Grinding Mills #7 and #8	1,769.52	1,484.82	529.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Fugitives from Mills #7 and #8	13.74	4.36	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas Combustion from Mills #7 and #8	0.17	0.67	0.67	0.05	8.76	0.48	7.36	10575.97	0.17	0.16	(Hexane)
Total Potential to Emit	1,869.51	1,554.81	592.36	0.06	9.20	0.51	7.73	11,104.77	0.17	0.17	(Hexane)

Note: Mill emissions with controls, mill emissions with no controls, insignificant natural gas combustion, and fugitive emissions are from existing FESOP 127-28966-00038, after Cage Mill was removed. Grinding Mills #7 and #8, fugitives from Mills #7 and #8, and natural gas combustion from Mills #7 and #8 are from this revision.

Controlled Emissions from Entire Source (tons per year)											
Emission Unit	PM	PM10	PM2.5	SO2	NOx	VOC	CO	GHG	Total HAPs	Worst HAP	
Mill Emissions With Controls	56.28	56.28	56.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mill Emissions With No Controls	6.93	2.80	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Insignificant Natural Gas Combustion	0.01	0.03	0.03	0.00	0.44	0.02	0.37	528.80	0.01	0.01	(Hexane)
Fugitive Emissions	1.01	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Grinding Mills #7 and #8	8.85	7.42	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Fugitives from Mills #7 and #8	13.74	4.36	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Natural Gas Combustion from Mills #7 and #8	0.17	0.67	0.67	0.05	8.76	0.48	7.36	10,575.97	0.17	0.16	(Hexane)
Total Potential to Emit	86.99	71.91	64.10	0.06	9.20	0.51	7.73	11,104.77	0.17	0.17	(Hexane)

Note: Grinding mills #7 and #8 emissions in the above table are based on controlled emissions at 99.5% control efficiency, as indicated in AP-42, Chapter 11.19.2

**Attachment: Emissions Calculations
Emission Summary of Revision - Grinding Mills #7 and #8**

**Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013**

2013 Revision - Uncontrolled and Controlled Emissions (tons/year)

	PTE Uncontrolled Mill Emissions (Mill 7 and 8)	Controlled Mill Emissions (Mill 7 and 8)	Controlled Fugitive Emissions	Insignificant Natural Gas Combustion	Revision Total PTE (tons/yr)	Revision Total Controlled Emissions
PM	1769.52	8.85	13.74	0.17	1,783.42	22.75
PM10	1484.82	7.42	4.36	0.67	1,489.84	12.45
PM2.5	529.98	2.65	1.32	0.67	531.96	4.63
SO2	0.00	0.00	0.00	0.05	0.05	0.05
NOx	0.00	0.00	0.00	8.76	8.76	8.76
VOC	0.00	0.00	0.00	0.48	0.48	0.48
CO	0.00	0.00	0.00	7.36	7.36	7.36
GHG, as CO2e	0.00	0.00	0.00	10575.97	10,575.97	10575.97
Total HAPs	0.00	0.00	0.00	0.17	0.17	0.17
Worst Individual HAP	0.00	0.00	0.00	0.16	0.16	0.16
				Hexane	Hexane	

**Attachment: Emissions Calculations
Emission Summary**

**Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Pit ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013**

Existing Source - Controlled/Limited Potential to Emit (tons/year)

	Mill Emissions With Controls	Mill Emissions With No Controls	Insignificant Natural Gas Combustion	Emissions	Total
				Emissions	
PM	56.28	4.57	0.01	22.86	60.86
PM10	56.28	1.74	0.03	5.85	58.05
PM2.5	56.28	1.74	0.03	1.29	58.05
SO2	0.00	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.44	0.00	0.44
VOC	0.00	0.00	0.02	0.00	0.02
CO	0.00	0.00	0.37	0.00	0.37
GHG				528.80	528.80
Total HAPs	0.00	0.00	0.01	0.00	0.01
Worst-Case Individual HAP	0.00	0.00	0.01 Hexane	0.00	0.01 Hexane

Fugitive Emissions from Crushed Stone Depot

	Existing Unpaved Road Emissions	Existing Handling and Storage Emissions	New Loading and Unloading	New Wind Erosion	New Paved Roads	New Unpaved Roads	Total
PM	10.59	0.46	0.16	1.01	6.35	4.29	22.86
PM10	2.70	0.22	0.08	0.35	1.24	1.27	5.85
PM2.5	0.27	0.22	0.01	0.35	0.31	0.13	1.29
SO2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VOC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total HAPs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worst-Case Individual HAP	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: The source is not one of the 28 source categories pursuant to 326 IAC 2-2-1(gg)(1) and 326 IAC 2-7-1(22). Therefore, fugitive emissions are not counted toward PSD and Title V applicability, respectively.

**Attachment: Emissions Calculations
Loading and Unloading Material Storage Piles**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-329646-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

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, Section 13.2.4, Aggregate Handling and Storage Piles, 11/06

$E_f = k(0.0032)(U/5)^{1.3}(M/2)^{1.4}$ <p>where E_f = emission factor (lb/ton) k = particle size multiplier (dimensionless) U = 11.75 mean wind speed, Chicago (mph) M = 6.7 % moisture content of limestone</p>
--

k for Particulate < 30 μm (PM)	k for Particulate < 10 μm (PM10)	k for Particulate < 2.5 μm (PM2.5)	PM Emission Factor (lb/ton)	PM10 Emission Factor (lb/ton)	PM2.5 Emission Factor (lb/ton)
0.74	0.35	0.053	1.32E-03	6.26E-04	9.48E-05

Fugitive Point	Maximum Throughput (ton/year)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM2.5 (tons/year)
Unloading from Lake Boat	80,000	0.053	0.025	3.79E-03
Dock Front-end Loader	80,000	0.053	0.025	3.79E-03
Plant Front-end Loader	80,000	0.053	0.025	3.79E-03
Totals		0.16	0.08	0.01

Methodology

Potential Emissions (tons/yr) = [Emission Factor (lb/ton)] * [Maximum Throughput (tons/year)] * (ton/2000 lbs)
 Particle size multiplier (k) from USEPA's AP-42, Section 13.2.4, Aggregate Handling and Storage Piles, 11/06

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 μm)
 PM2.5 = Particulate Matter (<2.5 μm)
 PTE = Potential to Emit

**Attachment: Emissions Calculations
Wind Erosion - Material Storage Piles**

**Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Pit ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013**

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.

$E_f = 1.7 * (s/1.5) * (365-p) / 235 * (f/15)$ <p>where E_f = emission factor (lb/acre/day) s = silt content (wt %) p = 125 days of rain greater than or equal to 0.01 inches f = 15 % of wind greater than or equal to 12 mph</p>

Material	Silt Content (wt%) ^a	Storage Pile	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)	Limited PTE of PM (tons/year)	Limited PTE of PM10/PM2.5 (tons/year)
Limestone	1.6	Surge Pile (Dock)	1.8519149	1	0.34	0.12
		Working Pile	1.8519149	2	0.68	0.24
Totals					1.01	0.35

Methodology

Limited PTE of PM (tons/yr) = [Emission Factor (lb/acre/day)] * [Maximum Pile Size (acres)] * (ton/2000 lbs) * (8760 hours/yr)

Limited PTE of PM10 (tons/yr) = [Potential PM Emissions (tons/yr)] * 35%

^a Silt content values obtained from AP-42 Table 13.2.4-1 (dated 1/95)

Abbreviations

- PM = Particulate Matter
- PM10 = Particulate Matter (<10 um)
- PM2.5 = Particulate Matter (<2.5 um)
- PTE = Potential to Emit

**Attachment: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (12/2003).

Vehicle Miles Traveled

1280

 mi/yr

Unmitigated Emission Factor, $E_f = [k * (sL/2)^{0.65} * (W/3)^{1.5} - C]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.082	0.016	0.004	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	38.8	38.8	38.8	tons = average vehicle weight (provided by source)
C =	0.00047	0.00047	0.00047	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-2)
sL =	10	10	10	g/m ² = Ubiquitous Baseline Silt Loading Values of paved roads (Table 13.2.1-3 for summer months)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$
 where p =

125

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N =

365

 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	10.86	2.12	0.53	lb/mile
Mitigated Emission Factor, $E_{ext} =$	9.93	1.94	0.48	lb/mile

Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10	Mitigated PTE of PM2.5
6.95	1.36	0.34	6.35	1.24	0.31

Methodology

PTE (tons/yr) = Vehicle Miles Traveled (miles/yr) * Emission Factor (lb/mile) * (ton/2000 lbs)

**Attachment: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Pit ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

Vehicle Miles Traveled mi/yr

Unmitigated Emission Factor, Ef = $k[(s/12)^a][(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	10	10	10	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Stone Quarrying and Processing)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2)
W =	37.0	37.0	37.0	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = $E * [(365 - P)/365]$
 Mitigated Emission Factor, Eext = $E * [(365 - P)/365]$
 where P = days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	13.36	3.94	0.39	lb/mile
Mitigated Emission Factor, Eext =	8.78	2.59	0.26	lb/mile

Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
6.52	1.92	0.19	4.29	1.27	0.13

Methodology

PTE (tons/yr) = Vehicle Miles Traveled (mi/yr) * Emission Factor (lb/mi) * (ton/2000 lb)

**Attachment: Emission Calculations
Baghouse Operations**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Emission Unit (Identification)	Stack Identification	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	Temperature (F)	Gas or Air Flow Rate (dcfm)	PM/PM-10 Emission Rate before Controls (lb/hr)	PM/PM-10 Emission Rate before Controls (tons/yr)	PM/PM-10 Emission Rate after Controls (lb/hr)	PM/PM-10 Emission Rate after Controls (tons/yr)
Mill 1										
Enclosed Mill System (Mill 1)	01-MDC-001	99.0%	0.010	4500	70	4500	38.57	168.9	0.386	1.69
Storage Silo Bin (01-FPT-001)	01-BNV-001	99.0%	0.010	2500	70	2500	21.43	93.9	0.214	0.939
Dust-Free Loadout (01-DFL-001)	01-BNV-002	99.0%	0.010	1500	70	1500	12.86	56.3	0.129	0.563
						Subtotal	72.86	319.11	0.729	3.19
Mill 2										
Enclosed Mill System (Mill 2)	02-MDC-001	99.0%	0.010	4500	70	4500	38.57	168.9	0.386	1.69
Storage Silo Bin (02-FPT-001)	02-BNV-001	99.0%	0.010	2500	70	2500	21.43	93.9	0.214	0.939
						Subtotal	60.00	262.8	0.600	2.63
Mill 3										
Enclosed Mill System (Mill 3)	03-MDC-001	99.0%	0.010	4500	70	4500	38.57	168.9	0.386	1.69
Storage Silo Bin (03-FPT-001)	03-BNV-001	99.0%	0.010	2500	70	2500	21.43	93.9	0.214	0.939
Dust-Free Loadout (03-DFL-001)	03-BNV-002	99.0%	0.010	1500	70	1500	12.86	56.3	0.129	0.563
						Subtotal	72.86	319.1	0.729	3.19
Mill 5										
Enclosed Mill System (Mill 5)	05-MDC-001	99.0%	0.010	17000	70	17000	145.71	638.2	1.457	6.38
Storage Silo Bin (05-FPT-001)	05-BNV-001	99.0%	0.010	4320	70	4320	37.03	162.2	0.370	1.62
Storage Silo Bin (05-FPT-002)	05-BNV-002	99.0%	0.010	4320	70	4320	37.03	162.2	0.370	1.62
Dust-Free Loadout (05-DFL-001)	05-BNV-003	99.0%	0.010	1500	70	1500	12.86	56.3	0.129	0.563
						Subtotal	232.63	1018.9	2.326	10.19
Enclosed Mill System (Mill 6)	06-MDC-001	99.9%	0.0172	17000	70	17000	2506	10978	2.51	11.0
						Subtotal	2506	10978	2.51	11.0
						Worst Case	Total	438	12897	6.9
										30.2

Allowable PM Emissions Pursuant to NSPS Subpart OOO 0.05 g/dscm = 0.022 gr/dscf

Emission Unit (Identification)	Stack Identification	Control Efficiency (%)	Grain Loading per Actual Cubic foot of Outlet Air (grains/cub. ft.)	Gas or Air Flow Rate (acfm.)	Temperature (F)	Gas or Air Flow Rate (dcfm)	PM Emission Rate before Controls (lb/hr)	PM Emission Rate before Controls (tons/yr)	PM Emission Rate after Controls (lb/hr)	PM Emission Rate after Controls (tons/yr)
Mill 1										
Enclosed Mill System (Mill 1)	01-MDC-001	99.0%	0.022	4500	70	4500	84.86	371.7	0.8486	3.72
Storage Silo Bin (01-FPT-001)	01-BNV-001	99.0%	0.022	2500	70	2500	47.14	206.5	0.4714	2.065
Dust-Free Loadout (01-DFL-001)	01-BNV-002	99.0%	0.022	1500	70	1500	28.29	123.9	0.2829	1.239
						Subtotal	160.29	702.05	1.60	7.02
Mill 2										
Enclosed Mill System (Mill 2)	02-MDC-001	99.0%	0.022	4500	70	4500	84.86	371.7	0.8486	3.72
Storage Silo Bin (02-FPT-001)	02-BNV-001	99.0%	0.022	2500	70	2500	47.14	206.5	0.4714	2.065
						Subtotal	132.00	578.2	1.32	5.78
Mill 3										
Enclosed Mill System (Mill 3)	03-MDC-001	99.0%	0.022	4500	70	4500	84.86	371.7	0.8486	3.72
Storage Silo Bin (03-FPT-001)	03-BNV-001	99.0%	0.022	2500	70	2500	47.14	206.5	0.4714	2.065
Dust-Free Loadout (03-DFL-001)	03-BNV-002	99.0%	0.022	1500	70	1500	28.29	123.9	0.2829	1.239
						Subtotal	160.29	702.1	1.60	7.02
Mill 5										
Enclosed Mill System (Mill 5)	05-MDC-001	99.0%	0.022	17000	70	17000	320.57	1404.1	3.2057	14.04
Storage Silo Bin (05-FPT-001)	05-BNV-001	99.0%	0.022	4320	70	4320	81.46	356.8	0.8146	3.57
Storage Silo Bin (05-FPT-002)	05-BNV-002	99.0%	0.022	4320	70	4320	81.46	356.8	0.8146	3.57
Dust-Free Loadout (05-DFL-001)	05-BNV-003	99.0%	0.022	1500	70	1500	28.29	123.9	0.2829	1.239
						Subtotal	511.78	2,241.61	5.12	22.42
Enclosed Mill System (Mill 6)	06-MDC-001	99.9%	0.022	17000	70	17000	3,205.71	14,041.03	3.2057	14.0
						Subtotal	3,205.71	14,041.03	3.21	14.0
						Worst Case	Total	4,170.07	18,264.90	12.8
										56.3

Methodology

Emission Rate in lbs/hr (after controls) = (grains/cub. ft.) (cub. ft./min.) (60 min/hr) (lb/7000 grains)
 Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Emission Rate in lbs/hr (before controls) = Emission Rate (after controls): (lbs/hr)/(1-control efficiency)
 Emission Rate in tons/yr = (lbs/hr) (8760 hr/yr) (ton/2000 lb)

Flow rate (dcfm) = Flow rate (acfm) x (530/(460 + Temperature (F)))

Company Name: O-N Minerals (Portage) Company LLC
 Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
 Permit Number: 127-32964-00038
 Plt ID: 127-00038
 Reviewer: Jack Harmon
 Date: August, 2013

Emissions from Uncontrolled Processes

Equipment Description	Identification	Type of Emission Unit	Throughput (tons/hr)	PM Emission Factor (lbs/ton)	PM-10 Emission Factor (lbs/ton)	Potential to Emit PM (lbs/hr)	Potential to Emit PM (tons/yr)	Potential to Emit PM-10 (lbs/hr)	Potential to Emit PM-10 (tons/yr)
Mill 1									
Outside Rock Hopper	01-ORH-001	Loading	37.5	0.0000336	0.0000016	0.000126	0.0006	0.00006	0.0003
Belt Conveyor	01-RBF-001	Conveying	37.5	0.00290000	0.0011000	0.10875	0.476	0.04125	0.1807
Mill Feed Tank	01-MFT-001	Conveying	37.5	0.00290000	0.0011000	0.10875	0.476	0.04125	0.1807
Bucket Elevator	01-BEL-001	Conveying	37.5	0.00290000	0.0011000	0.10875	0.476	0.04125	0.1807
Belt Conveyor	01-RBC-001	Conveying	37.5	0.00290000	0.0011000	0.10875	0.476	0.04125	0.1807
					Subtotal	0.435126	1.906	0.165	0.723
Mill 5									
Outside Rock Hopper	05-ORH-001	Loading	70	0.0000336	0.0000016	0.0002352	0.0010	0.000112	0.0005
Belt Conveyor	05-RBF-001	Conveying	70	0.00290000	0.0011000	0.203	0.889	0.077	0.3373
Bucket Elevator	05-BEL-001	Conveying	70	0.00290000	0.0011000	0.203	0.889	0.077	0.3373
Inside Feed Tank	05-MFT-001	Conveying	70	0.00290000	0.0011000	0.203	0.889	0.077	0.3373
					Subtotal	0.6092352	2.668	0.231112	1.0123
Total All Mills						1.04	4.57	0.40	1.74

PM and PM-10 emission factors from AP-42, Chapter 11.19.2

PM emission factor for loading and screening = 2.1 times the PM-10 emission factor as per note (c) in Table 11.19.2-2

Note: Pursuant to 326 IAC 6-3-1(b)(14), manufacturing processes with potential emissions less than 0.551 pounds per hour are exempt from the requirements of 326 IAC 6-3-2(e).

Company Name: O-N Minerals (Portage) Company LLC
 Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
 Permit Number: 127-32964-00038
 Plt ID: 127-00038
 Reviewer: Jack Harmon
 Date: August, 2013

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

Maximum trips per hour (trip/hour)	Maximum one-way distance (mi/trip)	Maximum number of trips	Maximum annual operating hours	Maximum one-way miles (miles/day)
2.5	0.150	2,000	8760.000	6570.0

Average Vehicle Weight Per Trip =

12.5

 tons/trip
 Average Miles Per Trip =

0.15

 miles/trip

Unmitigated Emission Factor, $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-3 Sand/Gravel Processing Plant Road)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2)
W =	12.5	12.5	12.5	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$

Mitigated Emission Factor, $E_{ext} = E \cdot [(365 - P)/365]$
 where P =

125

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	4.90	1.25	0.12	lb/mile
Mitigated Emission Factor, $E_{ext} =$	3.22	0.82	0.08	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
16.11	4.11	0.41	10.59	2.70	0.27

Methodology

Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Unmitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit

**Attachment: Emission Calculations
Fugitive Dust Emissions - Handling and Storage**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Truck Loading and Unloading for Mills 1, 2, 3, and 5

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4

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

P M : where k= 0.74 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{\underline{0.002}} \text{ lbs/ton}$$

$$\underline{\underline{0.002}} \text{ lbs/ton} \times \frac{45 \text{ tons/hr} \times 8760 \text{ hrs/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{0.458}} \text{ tons/yr}$$

PM-10: where k= 0.35 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{\underline{0.001}} \text{ lbs/ton}$$

$$\underline{\underline{0.001}} \text{ lbs/ton} \times \frac{45 \text{ tons/hr} \times 8760 \text{ hrs/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{0.217}} \text{ tons/yr}$$

M = 4.0 % moisture

Truck Loading and Unloading for Mill 6

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4

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

P M : where k= 0.74 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{\underline{0.002}} \text{ lbs/ton}$$

$$\underline{\underline{0.002}} \text{ lbs/ton} \times \frac{25 \text{ tons/hr} \times 8760 \text{ hrs/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{0.255}} \text{ tons/yr}$$

PM-10: where k= 0.35 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{\underline{0.001}} \text{ lbs/ton}$$

$$\underline{\underline{0.001}} \text{ lbs/ton} \times \frac{25 \text{ tons/hr} \times 8760 \text{ hrs/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{0.120}} \text{ tons/yr}$$

M = 4.0 % moisture

Storage emissions, which result from wind erosion, are determined by the following calculations:

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

= 1.85 lb/acre/day

where s = 1.6 % silt content of material
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph
50 % control by moisture

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

PM & PM-10= 1.86 tons/yr After Controls 0.931 tons/yr

where sc = 150 ,000 tons storage capacity

**Attachment: Emission Calculations
Natural Gas Combustion**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Insignificant Space Heaters	Heat Input Capacity MMBtu/hr 1.00
1.00	9		

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
	1.90	7.60	7.60	0.600	100 **see below	5.50	84.0
Total Potential Emissions (tons/yr)	0.008	0.033	0.033	0.003	0.438	0.024	0.368
Rotary Dryer Alone (tons/yr)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Space Heaters Alone (tons/yr)	0.008	0.033	0.033	0.003	0.438	0.024	0.368

*PM emission factor is filterable PM only. PM10 and PM2.5 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

HAPs Emissions

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons/yr	0.000009	0.000005	0.000329	0.007884	0.000015

Emission Factor in lb/MMcf	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
	0.0005	0.0011	0.0014	0.0004	0.0021	
Total Potential Emissions (tons/yr)	0.000002	0.000005	0.000006	0.000002	0.000009	8.266E-03
Rotary Dryer Alone (tons/yr)						0.0000
Space Heaters Alone (tons/yr)						0.0083

Methodology is the same as above.

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Pollutant		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	526	0.0	0.0
Summed Potential Emissions in tons/yr	525.62		
CO2e Total in tons/yr	528.80		

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.

Global 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).

**Attachment: Emission Calculations
Grinding Mill #7 and #8 Emissions**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Grinding Mill #7 (EGM-07)								
Pollutant	Throughput Rate (ton/hr)	Emission Factor (lb/ton)	Uncontrolled PTE (lb/hr)	Uncontrolled PTE (ton/yr)	Control Efficiency	Controlled Emissions (lb/hr)	Controlled Emissions (ton/yr)	
PM	25.0	0.0404	202.00	884.76	99.5%	1.01	4.42	
PM10	25.0	0.0339	169.50	742.41	99.5%	0.85	3.71	
PM2.5	25.0	0.0121	60.50	264.99	99.5%	0.30	1.32	

Grinding Mill #8 (EGM-08)								
Pollutant	Throughput Rate (ton/hr)	Emission Factor (lb/ton)	Uncontrolled PTE (lb/hr)	Uncontrolled PTE (ton/yr)	Control Efficiency	Controlled Emissions (lb/hr)	Controlled Emissions (ton/yr)	
PM	25.0	0.0404	202.00	884.76	99.5%	1.01	4.42	
PM10	25.0	0.0339	169.50	742.41	99.5%	0.85	3.71	
PM2.5	25.0	0.0121	60.50	264.99	99.5%	0.30	1.32	

Totals - Grinding Mills 7 and 8

Pollutant	Mill #7 Uncontrolled PTE (ton/yr)	Mill #7 Controlled Emissions (ton/yr)	Mill #8 Uncontrolled PTE (ton/yr)	Mill #8 Controlled Emissions (ton/yr)	Total Uncontrolled PTE (ton/yr)	Total Controlled Emissions (ton/yr)
PM	884.76	4.42	884.76	4.42	1,769.52	8.85
PM10	742.41	3.71	742.41	3.71	1,484.82	7.42
PM2.5	264.99	1.32	264.99	1.32	529.98	2.65

Methodology:

Emission factors from AP-42 Chapter 11, Table 11.19.2-4, August 2004, and represent controlled emissions. Therefore, uncontrolled emissions were back-calculated to obtain potential to emit. (Crushed stone and Pulverized Mineral Processing)

Control efficiencies from AP-42, Chapter 11.19.2, August 2004.

Controlled Emissions (lb/hr) = throughput (tons/hr) x emission factor (lb/ton)

Controlled Emissions (tons/yr) = Controlled emissions (lb/hr) x 8760 (hrs/yr) / 2000 (lb/ton)

Uncontrolled Emissions (lb/hr) = Controlled emissions (lb/hr) / (1-control efficiency (%))

Uncontrolled Emissions (tons/yr) = uncontrolled emissions (lb/hr) * 8760 (hrs/yr) / 2000 (lbs/ton)

Attachment: Emission Calculations
Fugitive Dust Emissions - Handling and Storage, and Roads

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32864-00038
Pit ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Truck Loading and Unloading for Mill 7

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4

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

P.M.: where k= 0.74 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.002 lbs/ton

0.002 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.255 tons/yr

PM-10: where k= 0.35 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.001 lbs/ton

0.001 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.120 tons/yr

PM-2.5: where k= 0.053 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.000 lbs/ton

0.000 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.018 tons/yr

Truck Loading and Unloading for Mill 8

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 13.2.4

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

P.M.: where k= 0.74 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.002 lbs/ton

0.002 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.255 tons/yr

PM-10: where k= 0.35 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.001 lbs/ton

0.001 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.120 tons/yr

PM-2.5: where k= 0.053 (particle size multiplier)
U = 10.4 mph mean wind speed (worst case)
M = 4.0 % moisture

EF = .0032 * $\frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$ = 0.000 lbs/ton

0.000 lbs/ton x 25 tons/hr x 8760 hrs/yr = 0.018 tons/yr

Unpaved Roads - from Increased Traffic from Mills 7 and 8

Vehicle Miles Traveled 1600 mi/yr

Unmitigated Emission Factor, EF = $K[(a/12)^b]^{1.6}$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2.2 for Industrial Roads)
a =	10	10	10	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Stone Quarrying and Processing)
b =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2)
W =	37.0	37.0	37.0	tons = average vehicle weight (provided by source)
c =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, E_{mit} = $E * (1 - P/365)$

Mitigated Emission Factor, E_{mit} = $E * (1 - P/365)$

where P = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

Unmitigated Emission Factor, EF = 13.36

Mitigated Emission Factor, E_{mit} = 13.36

Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
10.69	3.15	0.32	10.69	3.15	0.21

Fugitive Emissions from Mill #7 Equipment With No Controls										
Equipment Description	ID Number	Emission Factor Source	Type of Emission Unit	Throughput (ton/hr)	PM Emission Factor (lb/ton)	PM10/PM2.5 Emission Factor (lb/ton)	PTE PM (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)
Hopper - Transfer of material to feeder	FHF-07	1	Loading	25.0	3.36E-07	1.60E-06	8.40E-06	3.68E-05	4.00E-05	1.75E-04
Belt Conveyor - Feeder to Conveyor	FHF-08	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01

Total Fugitive Emissions		
PM	PM10	PM2.5
13.74	4.36	1.32
tons/yr	tons/yr	tons/yr

Fugitive Emissions from Mill #7 Equipment With Controls										
Equipment Description	ID Number	Emission Factor Source	Type of Emission Unit	Throughput (ton/hr)	PM Emission Factor (lb/ton)	PM10/PM2.5 Emission Factor (lb/ton)	PTE PM (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)
Feed Bin - transfer conveyor to bin	FBC-07	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Vibrating Feeder - from bin to feeder	FFV-07	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Vibrating Feeder - from feeder to Mill #7	FVT-07	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Pneumatic Conveyor - transfer from #7	FPC-07	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Mill #7 Totals							1.59E+00	1.59E-01	6.02E-01	6.02E-01

Fugitive Emissions from Mill #8 Equipment With Controls										
Equipment Description	ID Number	Emission Factor Source	Type of Emission Unit	Throughput (ton/hr)	PM Emission Factor (lb/ton)	PM10/PM2.5 Emission Factor (lb/ton)	PTE PM (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)	PTE PM10/2.5 (lb/yr)
Vibrating Feeder - from bin to feeder	FFV-08	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Vibrating Feeder - from feeder to Mill #8	FVT-08	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Pneumatic Conveyor - transfer from #8	FPC-08	2	Conveyor	25.0	2.90E-03	1.10E-03	7.25E-02	3.18E-01	2.75E-02	1.20E-01
Mill #8 Totals							8.53E-01	8.53E-01	3.61E-01	3.61E-01

Emission Factor Source

- 1 - Emission factor from this source in its FESOP No. 127-28966-00038, issued March 29, 2010
- 2 - Emission factors from AP-42, Table 11.19.2-2 for Pulverized Mineral Processing, September, 2003.

**Attachment: Emission Calculations
Natural Gas Combustion - Units Added 2013**

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Permit Number: 127-32964-00038
Plt ID: 127-00038
Reviewer: Jack Harmon
Date: August, 2013

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Direct Process Heaters (2013)	EGM-07 EGM-08	Heat Input Capacity MMBtu/hr 10.00 10.00
20.00	175.20			

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
	1.90	7.60	7.60	0.600	100 **see below	5.50	84.0
Total Potential Emissions (tons/yr)	0.166	0.666	0.666	0.053	8.760	0.482	7.358

*PM emission factor is filterable PM only. PM10 and PM2.5 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

HAPs Emissions

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons/yr	0.000184	0.000105	0.006570	0.157680	0.000298

Emission Factor in lb/MMcf	HAPs - Metals					Total
	Lead	Cadmium	Chromium	Manganese	Nickel	
	0.0005	0.0011	0.0014	0.0004	0.0021	
Total Potential Emissions (tons/yr)	0.000044	0.000096	0.000123	0.000033	0.000184	1.653E-01
						0.1577

Worst HAP
(Hexane)

Methodology is the same as above.

Greenhouse Gas Calculations

Emission Factor in lb/MMcf	Pollutant		
	CO2	CH4	N2O
	120,000	2.3	2.2
Potential Emission in tons/yr	10,512	0.2	0.2
Summed Potential Emissions in tons/yr	10,512.39		
CO2e Total in tons/yr	10,575.97		

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.

Global 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).



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

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

TO: Belinda Speer
O-N Minerals (Portage) Company, LLC
165 Steel Dr
Portage, IN 46368

DATE: October 31, 2013

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

SUBJECT: Final Decision
FESOP - Significant Permit Revision
127 - 32964 - 00038

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:
Chris Imbrogno, SEM
John Weber GAI Consultants, Inc.
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 6/13/2013



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Governor

Thomas W. Easterly
Commissioner

October 31, 2013

TO: Portage Public Library 2665 Irving Street Portage IN

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

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

Applicant Name: O-N Minerals (Portage) Company, LLC
Permit Number: 127 - 32964 - 00038

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

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

Enclosures
Final Library.dot 6/13/2013

Mail Code 61-53

IDEM Staff	LPOGOST 10/31/2013 O-N Minerals (Portage) Company LLC 127 - 32964 - 00038 /final)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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2		Chris Imbrogno SEM O-N Minerals (Portage) Company LLC 165 Steel Dr Portage IN 46368 (RO CAATS)										
3		Portage Public Library 2665 Irving Street Portage IN 46368 (Library)										
4		Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official)										
5		Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department)										
6		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
7		Mr. Ed Dybel 2440 Schrage Avenue Whiting IN 46394 (Affected Party)										
8		Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party)										
9		Mark Coleman 107 Diana Road Portage IN 46368 (Affected Party)										
10		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
11		Burns Harbor Town Council 1240 N. Boo Rd Burns Harbor IN 46304 (Local Official)										
12		Eric & Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party)										
13		Portage City Council and Mayors Office 6070 Central Ave Portage IN 46368 (Local Official)										
14		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
15		Matt Mikus 409 Yellowstone Rd - Apt 1 Valparaiso IN 46385 (Affected Party)										

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1		John GAI Consultants, Inc. 385 East Waterfront Drive Homestead PA 15120 (Consultant)										
2												
3												
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