



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
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TO: Interested Parties / Applicant
DATE: March 29, 2007
RE: O-N Minerals / 127-19508-00038
FROM: Nisha Sizemore
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, Room 1049, 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 03/23/06



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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 2-8as 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, 2012

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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
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} Attainment for all other 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 12.5 tons of non-metallic minerals per hour.
- (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 12.5 tons of non-metallic minerals per hour.
- (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 12.5 tons of non-metallic minerals per hour.
- (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.
- (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.
- (x) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (y) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (z) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (aa) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (bb) 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.

Cage Mill

- (cc) Two (2) belt conveyors, identified as CM-RBC-002 & 003, one (1) cage mill, identified as Penroc, three (3) bucket elevators, identified as CM-BEL-001 - 003, one (1) dry stone storage bin, identified as CM-FPT-001, one (1) screening operation, identified as CM-SCR-001 and one (1) screw conveyor, identified as CM-RSC-001, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (dd) Two (2) screw conveyors, identified as CM-RSC-003 & 004, one (1) storage bin, identified as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.

- (ee) Two (2) screw conveyors, identified as CM-RSC-002 & 005, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 15 tons of non-metallic minerals per hour.
- (ff) One (1) rotary dryer, identified as rotary dryer, equipped with a baghouse, identified as RD-BNV-001, for particulate matter control and exhausted through Stack RD-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, identified as CM-FPT-002, equipped with a cartridge filter, identified as CM-BNV-002, for particulate matter control and exhausted through Stack CM-BNV-002, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, identified as CM-DFL-001, equipped with a baghouse, identified as CM-BNV-003, for particulate matter control and exhausted through Stack CM-BNV-003, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, identified as CM-ORH-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) belt conveyor, identified as CM-RBF-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (kk) One (1) inclined belt conveyor, identified as CM-RBC-001, capacity: 90 tons of non-metallic minerals per hour.

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 five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, 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]

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and 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 Section), or

Telephone Number: 317-233-0178 (ask for Compliance Section)

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 Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
 - (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

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

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

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

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

- (a) All terms and conditions of permits established prior to 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 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]

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

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request.
[326 IAC 2-8-10(b)(3)]

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- and
- United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590
- in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ

- in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).
- (b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
 - (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
 - (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

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

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

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

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

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 and 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 5-1-3 (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 or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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

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

C.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 August 30, 1990 and December 13, 1996.

- (a) Pursuant to CP 127-1915-00038, issued on April 15, 1991, the fugitive dust plan requires that stockpiled limestone dust be controlled by water on an as-needed basis. An enclosed dust control system shall be used to control fugitive dust from the mills (1, 2 and 3) and processing equipment. All finished product shall be loaded into bulk trucks using dust free loading spouts. Each dust collector shall have a sensor to alert the operator if too much dust should pass by it. Outdoor conveying equipment shall be covered. All roads shall be paved. Over the road product shall be hauled by tanker truck.
- (b) Pursuant to CP 127-5063-00038, issued on February 28, 1997, the fugitive particulate matter emissions shall be controlled by wet suppression of haul and traffic areas on an as-needed basis.

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
Asbestos Section, Office of Air Quality
100 North Senate Avenue
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).

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

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

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

The ERP does require the certification 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.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

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

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

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

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

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

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

Stratospheric Ozone Protection

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

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

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

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Mills 1, 2, 3, 5, 6 and Cage Mill Facilities

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 12.5 tons of non-metallic minerals per hour.
- (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 12.5 tons of non-metallic minerals per hour.
- (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 12.5 tons of non-metallic minerals per hour.
- (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.
- (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.

(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

- (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.
- (x) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (y) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (z) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (aa) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (bb) 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.

Cage Mill

- (cc) Two (2) belt conveyors, identified as CM-RBC-002 & 003, one (1) cage mill, identified as Penroc, three (3) bucket elevators, identified as CM-BEL-001 - 003, one (1) dry stone storage bin, identified as CM-FPT-001, one (1) screening operation, identified as CM-SCR-001 and one (1) screw conveyor, identified as CM-RSC-001, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (dd) Two (2) screw conveyors, identified as CM-RSC-003 & 004, one (1) storage bin, identified as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 75 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

- (ee) Two (2) screw conveyors, identified as CM-RSC-002 & 005, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 15 tons of non-metallic minerals per hour.
- (ff) One (1) rotary dryer, identified as rotary dryer, equipped with a baghouse, identified as RD-BNV-001, for particulate matter control and exhausted through Stack RD-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, identified as CM-FPT-002, equipped with a cartridge filter, identified as CM-BNV-002, for particulate matter control and exhausted through Stack CM-BNV-002, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, identified as CM-DFL-001, equipped with a baghouse, identified as CM-BNV-003, for particulate matter control and exhausted through Stack CM-BNV-003, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, identified as CM-ORH-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) belt conveyor, identified as CM-RBF-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (kk) One (1) inclined belt conveyor, identified as CM-RBC-001, capacity: 90 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.)

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, and the cage mill operations, 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, and the cage mill operations, 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.1.3 PM₁₀ Limitations [326 IAC 2-8-4]

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

Facility	Hourly PM₁₀ Emission Limit (lbs/hr)
Mill 1	0.75
01-FPT-001	0.42
01-DFL-001	0.25
Mill 2	0.75
02-FPT-001	0.42
Mill 3	0.75
03-FPT-001	0.42
Mill 5	2.84
05-FPT-001	0.72
05-FPT-002	0.72
05-DFL-001	0.25
Mill 6	2.84
Cage Mill	3.76
Rotary Dryer	3.61
CM-FPT-002	0.52
CM-DFL-001	0.27

(b) Compliance with these PM₁₀ emission limits will keep the PM₁₀ 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.1.4 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
Cage Mill	4.24	3.76
Rotary Dryer	3.08	3.61
CM-FPT-002	0.58	0.52
CM-DFL-001	0.30	0.27

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for 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) At the Cage Mill Facilities: CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001

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]

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- (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. Testing shall be in accordance with Section C – 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. Testing shall be in accordance with Section C – 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. Testing shall be in accordance with Section C – Performance Testing.
- (d) By September 20, 2010, in order to demonstrate compliance with the NSPS Subpart OOO requirements, the Permittee shall perform PM and opacity testing for all facilities in the Cage Mill 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. Testing shall be in accordance with Section C – Performance Testing.
- (e) By June 25, 26 and 27, 2008, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM₁₀ 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 PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be in accordance with Section C – Performance Testing.
- (f) By September 22, 2010, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mill 5 (Mill 5) utilizing methods as approved by the Commissioner. These PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be in accordance with Section C – Performance Testing.
- (g) By December 17, 2007, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mill 6 (Mill 6) utilizing methods as approved by the Commissioner. These PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be in accordance with Section C – Performance Testing.
- (h) By September 20, 2010, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Cage Mill (Penroc and rotary dryer (RD-BNV-001) utilizing methods as approved by the Commissioner. These PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be in accordance with Section C – Performance Testing.

- (i) 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 CM-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.

D.1.8 Particulate Control

- (a) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the baghouses 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, 5 and/or 6 are in operation.
- (b) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, 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, 5 and/or the Cage Mill are in operation.
- (c) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the cage mill (CM-BNV-001) at all times when the cage mill is in operation.
- (d) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the rotary dryer (RD-BNV-001) at all times when the rotary dryer is in operation.
- (e) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the truck loadout (CM-BNV-003) at all times when the truck loadout is in operation.
- (f) In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the storage silo (CM-BNV-002) at all times when the silo is in operation.
- (g) 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.

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

D.1.9 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) and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-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 in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.10 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

- (c) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with the cage mill facilities (CM-BNV-001, CM-BNV-002, CM-BNV-003, and RD-BNV-001), at least once per day while the cage mill 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.11 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.1.12 Record Keeping Requirements

- (a) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations of the facility 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) and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) once per day.
- (b) To document compliance with Condition D.1.10, the Permittee shall maintain records once per day of the pressure drop.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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 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 of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility 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]

D.2.4 Record Keeping Requirements

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

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

**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 DATA SECTION
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY/DEVIATION 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 No.: F 127-19508-00038

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2

- 9** 1. This is an emergency as defined in 326 IAC 2-7-1(12)
The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16
- 9** 2. This is a deviation, reportable per 326 IAC 2-8-4(3)(C)
The Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:

Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation? 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/deviation:
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 DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
SEMI-ANNUAL 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 No.: F 127-19508-00038

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

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name:	O-N Minerals (Portage) Company LLC
Source Location:	165 Steel Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	1422
Permit Renewal No.:	F 127-19508-00038
Permit Reviewer:	Mark L. Kramer

On February 23, 2007, the Office of Air Quality (OAQ) had a notice published in the Chesterton Tribune, Chesterton, Indiana, stating that O-N Minerals (Portage) Company LLC had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a stationary non-metallic minerals processing plant with baghouses and cartridge filters for particulate control. The notice also stated that OAQ proposed to issue a FESOP Renewal for this operation and provided information on how the public could review the proposed FESOP Renewal 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 FESOP Renewal should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the FESOP Renewal: The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**).

Change 1:

In the Table of Content for Condition B.20, the rule cites [326 IAC 2-2-2] and [326 IAC 2-3-2] have been deleted and the rule cites [326 IAC 12] and [40 CFR 60, Subpart OOO] have been added to Condition D.1.6 to match the conditions in the permit. In addition a slash (/) has been inserted in between the words "Emergency" and "Deviation" in the Table of Contents to match the title of the form as follows:

B.20 Source Modification Requirement [326 IAC 2-8-11.1] ~~[326 IAC 2-2-2]~~ ~~[326 IAC 2-3-2]~~

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]**

Emergency/~~Deviation~~ Occurrence Report:

Change 2:

Even though there is only one (1) stack exhaust in Mill 6, the stack exhaust identification 06-MDC-001 has been added to Conditions D.1.9(a) and D.1.12(a) as follows:

D.1.9 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**) and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-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.

D.1.12 Record Keeping Requirements

- (a) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations of the facility 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**) and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) once per day.

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

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit
(FESOP) Renewal

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
Operation Permit No.:	F 127-11241-00038
Operation Permit Issuance Date:	March 22, 2000
Permit Renewal No.:	F 127-19508-00038
Permit Reviewer:	Mark L. Kramer

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from O-N Minerals (Portage) Company LLC, formerly Global Stone Portage, LLC, relating to the operation of a stationary non-metallic minerals processing plant.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted 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 12.5 tons of non-metallic minerals per hour.
- (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 12.5 tons of non-metallic minerals per hour.
- (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 nonmetallic 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 12.5 tons of non-metallic minerals per hour.
- (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.
- (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.
- (x) One (1) outside rock hopper, identified as 05-ORH-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (y) One (1) belt conveyor, identified as 05-RBF-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (z) One (1) bucket elevator, identified as 05-BEL-001, installed in March 1997, capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.
- (aa) One (1) inside feed tank, identified as 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 50 tons of non-metallic minerals per hour. Also utilized by Mill 6.

Mill 6

- (bb) 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.

Cage Mill

- (cc) Two (2) belt conveyors, identified as CM-RBC-002 & 003, one (1) cage mill, identified as Penroc, three (3) bucket elevators, identified as CM-BEL-001 - 003, one (1) dry stone storage bin, identified as CM-FPT-001, one (1) screening operation, identified as CM-SCR-001 and one (1) screw conveyor, identified as CM-RSC-001, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (dd) Two (2) screw conveyors, identified as CM-RSC-003 & 004, one (1) storage bin, identified as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (ee) Two (2) screw conveyors, identified as CM-RSC-002 & 005, equipped with a baghouse, identified as CM-BNV-001, for particulate matter control, and exhausted through Stack CM-BNV-001, installed in 2004, capacity: 15 tons of non-metallic minerals per hour.

- (ff) One (1) rotary dryer, identified as rotary dryer, equipped with a baghouse, identified as RD-BNV-001, for particulate matter control and exhausted through Stack RD-BNV-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, identified as CM-FPT-002, equipped with a cartridge filter, identified as CM-BNV-002, for particulate matter control and exhausted through Stack CM-BNV-002, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, identified as CM-DFL-001, equipped with a baghouse, identified as CM-BNV-003, for particulate matter control and exhausted through Stack CM-BNV-003, installed in 2004, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, identified as CM-ORH-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) belt conveyor, identified as CM-RBF-001, installed in 2004, capacity: 90 tons of non-metallic minerals per hour.
- (kk) One (1) inclined belt conveyor, identified as CM-RBC-001, capacity: 90 tons of non-metallic minerals per hour.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted emission units operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no new emission units proposed at this source during this review process.

Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) Combustion source flame safety purging on startup.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
 - (2) Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (e) 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 8-3-9]

- (f) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (g) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (h) Uncontrolled product transfer with particulate matter emissions less than five (5) pounds per hour or twenty-five (25) pounds per day.

Existing Approvals

The source has been operating under the previous FESOP 127-11241-00038, issued on March 22, 2000, and the following amendments and revisions:

- (a) SPR 127-21182-00038, issued on August 10, 2005;
- (b) SPR 127-18866-00038, issued on September 17, 2004;
- (c) Interim 127-18866-00038, issued on June 10, 2004;
- (d) AA 127-18024, issued on December 29, 2003;
- (e) AA 127-17831-00038, issued on July 31, 2003;
- (f) SPR 127-14989-00038, issued on February 4, 2002;
- (g) Reopening 127-13096-00038 issued on January 16, 2002; and
- (h) AA 127-12714, issued on December 8, 2000.

All conditions from previous approvals were incorporated into this FESOP except the following:

FESOP 127-11241-00038, issued on March 22, 2000, and
SPR 127-14989-00038, issued on February 4, 2002

Condition D.1.3: Specified hourly PM₁₀ emission rates by facility to comply with 326 IAC 2-8-4.

Reason not incorporated: The hourly PM₁₀ emission rates were revised by SPR 127-18866-00038, issued on September 17, 2004 and by SPR 127-21182-00038, issued on August 10, 2005. The latter PM₁₀ emission rates have been incorporated into the proposed permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP renewal be approved. This recommendation is based on the following facts and conditions:

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

An administratively complete FESOP renewal application for the purposes of this review was received on June 21, 2004. Additional information was received on August 21 and 26, 2004 and January 10, 2007.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See Pages 1 - 7 of Appendix A of this document for detailed emission calculations.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	14,693
PM ₁₀	14,668
SO ₂	0.066
VOC	3.60
CO	9.20
NO _x	11.0

HAPs	Unrestricted Potential Emissions (tons/yr)
Benzene	0.00023
Cadmium Compounds	0.00012
Chromium Compounds	0.00015
Dichlorobenzene	0.00013
Formaldehyde	0.00821
Hexane	0.19710
Lead Compounds	0.000055
Manganese Compounds	0.000042
Nickel Compounds	0.00023
Toluene	0.00037
Other Insignificant Activity HAPs	0.5
Total	0.707

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is not subject to the provisions of 326 IAC 2-7.

Potential to Emit After Issuance

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

Process/Emission Unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Mill 1							
Enclosed Mill System (Mill 1)	3.72	3.30	-	-	-	-	-
Storage Silo Bin (01-FPT-001)	2.07	1.83	-	-	-	-	-
Dust-Free Loadout 01-DFL-001	1.24	1.10	-	-	-	-	-
Outside Rock Hopper (01-ORH-001)	0.006	0.0003	-	-	-	-	-
Belt Conveyor (01-RBF-001)	0.476	0.181	-	-	-	-	-
Mill Feed Tank (01-MFT-001)	0.476	0.181	-	-	-	-	-
Bucket Elevator (01-BEL-001)	0.476	0.181	-	-	-	-	-
Belt Conveyor (01-RBC-001)	0.476	0.181	-	-	-	-	-
Mill 2							
Enclosed Mill System (Mill 2)	3.72	3.30	-	-	-	-	-
Storage Silo Bin (02-FPT-001)	2.07	1.83	-	-	-	-	-
Mill 3							
Enclosed Mill System (Mill 3)	3.72	3.30	-	-	-	-	-
Storage Silo Bin	2.07	1.83	-	-	-	-	-

Process/Emission Unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
(03-FPT-001)							
Dust-Free Loadout (03-DFL-001)	1.24	1.10	-	-	-	-	-
Inside Rock Hopper (03-IRH-001)	0.0002	0.0001	-	-	-	-	-
Belt Conveyor (03-RBF-001)	0.159	0.060	-	-	-	-	-
Product Lump Breaker (03-PLB-001)	1.73	0.821	-	-	-	-	-
Bucket Elevator (03-BEL-001)	0.159	0.060	-	-	-	-	-
Inside Feed Tank (03-MFT-001)	0.159	0.060	-	-	-	-	-
Belt Conveyor (03-RBC-001)	0.159	0.060	-	-	-	-	-
Mill 5							
Enclosed Mill System (Mill 5)	14.0	12.5	-	-	-	-	-
Storage Silo Bin (05-FPT-001)	3.57	3.17	-	-	-	-	-
Storage Silo Bin (05-FPT-002)	3.57	3.17	-	-	-	-	-
Dust-Free Loadout (05-DFL-001)	1.24	1.10	-	-	-	-	-
Outside Rock Hopper (05-ORH-001)	0.007	0.0004	-	-	-	-	-
Belt Conveyor (05-RBF-001)	0.635	0.241	-	-	-	-	-
Bucket Elevator (05-BEL-001)	0.635	0.241	-	-	-	-	-
Inside Feed Tank (05-MFT-001)	0.635	0.241	-	-	-	-	-
Mill 6							
Enclosed Mill System (Mill 6)	14.0	12.5	-	-	-	-	-
Cage Mill							
Cage Mill (Penroc)	18.6	16.5	-	-	-	-	-
Rotary Dryer (Rotary Dryer)	13.5	15.8	-	-	-	-	-

Process/Emission Unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
1,000 ton Storage Silo (CM-FPT-002)	0.496	2.27	-	-	-	-	-
Truck Loadout System (CM-DFL-001)	1.32	1.17	-	-	-	-	-
Loading Hopper (CM-ORH-001)	0.001	0.0006	-	-	-	-	-
Inclined Belt Conveyor (CM-RBC-001)	1.14	0.434	-	-	-	-	-
Subtotal	97.5	88.7	-	-	-	-	-
Insignificant Activities							
Natural Gas Combustion	0.208	0.832	0.066	0.602	9.20	11.0	0.207
Unpaved Roads	13.1	2.87	-	-	-	-	-
Loading/Unloading Trucks	0.713	0.337	-	-	-	-	-
Storage Piles	0.931	0.931	-	-	-	-	-
Other Insignificant Activities	-	-	-	3.0	-	-	0.5
Subtotal Insignificant Activities	14.9	4.97	0.066	3.60	9.20	11.0	0.707
Total	112	93.7	0.066	3.60	9.20	11.0	0.707

- (a) The PM emission rates for the controlled emission units are equivalent to the allowable PM emissions of 0.05 grams per dry standard cubic meter pursuant to NSPS Subpart OOO as shown on page 1 of 7 of Appendix A which are all greater than the potential to emit PM after controls with the stated control efficiency. Note that the more restrictive PM emission rate for the alternative 1,000 ton storage silo is listed in this table.
- (b) The PM₁₀ emission rates for the controlled emission units were specified by SPR 127-18866-00038, issued on September 17, 2004 and revised by SPR 127-21182-00038, issued on August 10, 2005 in order to comply with 326 IAC 2-8-4.
- (c) This existing source is **not** a major stationary source for the purposes of PSD, 326 IAC 2-2, because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (d) This existing source is **not** a major stationary source for the purposes of Emission Offset, 326 IAC 2-3, because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater and it is not in one of the 28 listed source categories.

County Attainment Status

The source is located in Porter County.

Pollutant	Status
PM _{2.5}	basic nonattainment
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
8-Hour Ozone	moderate nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are nonattainment under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

VOC and NO_x emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Porter County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements of 326 IAC 2-3, Emission Offset.

- (b) U.S. EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Porter County as nonattainment for PM_{2.5}. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions pursuant to the Nonattainment New Source Review requirements.
- (c) 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.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions

Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) This source, consisting of Mills 1, 2, 3, 5 and 6, and the cage mill operations, is subject to the New Source Performance Standard, 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO. This rule requires:
- (1) 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.
 - (2) On and after the sixtieth (60th) day after achieving the maximum production rate at which the affected facilities will be operated, but not later than one hundred eighty (180) days after initial startup as required under Sec. 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 ten percent (10%) opacity, except as provided in paragraphs (c), (d), and (e) of 40 CFR 60.672.
 - (3) On and after the sixtieth (60th) day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (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 fifteen percent (15%) opacity.
 - (4) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60.672.
 - (5) 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:
 - (A) 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.
 - (B) 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) of 40 CFR 60.672.
 - (6) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred eighty (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 seven percent (7%) opacity.
 - (7) 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.
 - (8) On and after the sixtieth (60th) day after achieving the maximum production rate at which the affected facility will be operated, but not later than one hundred

eighty (180) days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

- (A) 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.
 - (B) 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.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR 61 and 40 CFR Part 63) included in this proposed renewal.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source constructed after the August 7, 1977 applicability date of this rule is not a major PSD source since PM and PM₁₀ are emitted at rates of less than two hundred fifty (250) tons per year. Compliance with the NSPS Subpart OOO PM emission limitation, and the after control PM emission rates are less than one hundred (100) tons per year, not including fugitive emissions. The PM₁₀ emission rates from facilities with controls have been limited such that the sum of those PM₁₀ emission rates is less than the equivalent of 85.7 tons per year and the total source-wide PM₁₀ emissions are limited to less than one hundred (100) tons per year.

- (a) The combined PM emissions from the Mills 1, 2, 3, 5, and 6, as well as the cage mill system are limited to the equivalent of 92.3 tons per year for the facilities with control devices in addition to the potential to emit PM of 6.39 tons per year for the uncontrolled non-fugitive facilities (see page 2 of 7 of Appendix A). These same facilities are also subject to the requirements of NSPS Subpart OOO. Subpart OOO allows compliance by either opacity or a PM emission rate of 0.05 grams per dry standard cubic meter of outlet air. Since the after control PM emission rates shown on Appendix A page 1 of 7 demonstrate compliance with this PM emission rate, therefore, the same hourly PM emission limitations have been assigned to the facilities with controls.

The individual facilities equipped with baghouses or cartridge filters at Mills 1, 2, 3, 5 and 6, and the cage mill operations shall not exceed the following hourly PM emission limits calculated using only the NSPS Subpart OOO allowable emission rate coupled with the air flow rate through the control device.

The combined PM₁₀ emissions from the Mills 1, 2, 3, 5, and 6, as well as the cage mill system are limited to the equivalent of 85.7 tons per year for the facilities with control devices in addition to the potential to emit PM₁₀ of 2.59 tons per year for the uncontrolled non-fugitive facilities (see page 2 of 7 of Appendix A). The limited PM and PM₁₀ emission rates are specified in the following table:

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

Facility	Hourly PM Emission Limit (lbs/hr)	Hourly PM ₁₀ Emission Limit (lbs/hr)
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
Cage Mill	4.24	3.76
Rotary Dryer	3.08	3.61
CM-FPT-002	0.58	0.52
CM-DFL-001	0.30	0.27

- (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) and one hundred (100) tons per year, respectively, and renders the requirements of 326 IAC 2-2 not applicable.

326 IAC 2-3 (Emission Offset)

The unrestricted potential VOC emissions and the unrestricted potential NO_x emissions are each less than one hundred (100) tons per year. Therefore, this source is a minor source pursuant to 326 IAC 2-3. PM₁₀, acting as a surrogate for PM_{2.5}, has been limited to less than one hundred (100) tons per year. Therefore, this limitation makes the source a minor source with respect to 326 IAC 2-3 (Emission Offset).

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

The operation of the entire source will emit less than ten (10) tons per year of a single HAP or twenty-five (25) tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Porter County with the potential to emit of less than one hundred (100) tons per year of NO_x, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8 (Federally Enforceable State Operating Permit Program)

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

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)
Mill 1	0.75
01-FPT-001	0.42
01-DFL-001	0.25
Mill 2	0.75
02-FPT-001	0.42
Mill 3	0.75
03-FPT-001	0.42
03-DFL-001	0.25
Mill 5	2.84
05-FPT-001	0.72
05-FPT-002	0.72
05-DFL-001	0.25
Mill 6	2.84
Cage Mill (Penroc)	3.76
Rotary Dryer	3.61
CM-FPT-002	0.52
CM-DFL-001	0.27

- (b) Compliance with these PM₁₀ emission limits together with the potential to emit of the uncontrolled emission units and insignificant activities will keep the PM₁₀ emissions from the source to less than one hundred (100) tons per year. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

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 the 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.

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-1(c)(5), the requirements of 326 IAC 6-3-2 do not apply to any emission units at the source since the particulate matter limitations pursuant to 326 IAC 12 concerning NSPS Subpart OOO are more stringent than the particulate limitations established in 326 IAC 6-3-2.

State Rule Applicability - Insignificant Activities

326 IAC 6-4 (Fugitive Dust Emissions)

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

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

(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 (38EC) (one hundred degrees Fahrenheit (100EF));
 - (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 (38EC) (one hundred degrees Fahrenheit (100EF)), 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 (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):

- (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.

326 IAC 8-3-8 (Material requirements for cold cleaning degreasers)

Pursuant to 326 IAC 8-3-1(c), O-N Minerals (Portage) Company LLC is subject to the requirements of 326 IAC 8-3-8 since it is located in Porter County and uses solvent in a cold cleaning degreaser.

326 IAC 8-3-8, applies to the users, providers, and manufacturers of solvents for use in cold cleaning degreasers in Porter County, except for solvents intended to be used to clean electronic components. Electronic components means all components of an electronic assembly, including, but not limited to, the following:

- (a) Circuit board assemblies.
- (b) Printed wire assemblies.
- (c) Printed circuit boards.
- (d) Soldered joints.
- (e) Ground wires.
- (f) Bus bars.
- (g) Any other associated electronic component manufacturing equipment.

No person 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).

All persons subject to the requirements of subsection 326 IAC 8-3-8(c)(2)(B) shall maintain each of the following records for each purchase:

- (a) The name and address of the solvent supplier.
- (b) The date of purchase.
- (c) The type of solvent.
- (d) The volume of each unit of solvent.
- (e) The total volume of the solvent.
- (f) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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.

326 IAC 8-4-2 (Petroleum refineries)

The requirements of 326 IAC 8-4-2 are not included in this Permit because the source is not a petroleum refinery

326 IAC 8-4-3 (Petroleum liquid storage facilities)

The requirements of 326 IAC 8-4-3 are not included in this Permit because the insignificant storage tanks have a capacity of less than 39,000 gallons.

326 IAC 8-5 (Miscellaneous Operations)

The requirements of 326 IAC 8-5 are not included in this Permit since the source is not an asphalt paving plant, not a synthesized pharmaceutical manufacturing operations, not a rubber tire manufacturing operations, not a graphic arts operation.

Testing Requirements

- (a) Past Stack Test Results:

Since O-N Minerals (Portage) Company LLC requested a revision in the PM₁₀ FESOP emission limits in SPR 127-21182-00038, issued on August 10, 2005; for the existing facilities, IDEM, OAQ reviewed all past stack tests and the more recent stack tests to assure that these past stack test results show compliance with the proposed PM₁₀ emission limits.

Only PM stack tests were conducted for Mill 5 on May 6, 1997. PM and filterable PM₁₀ stack tests (in addition to opacity) were conducted for Mill 6 at 25 tons per hour and the GAF screening operation on December 17 - 18, 2002.

Stack tests were also conducted on June 25 - 28, 2003 for Mills 1, 2, 3, 5. IDEM, OAQ has accepted the test protocol and approved the test results.

Mill 1 was tested at an average capacity of 10.0 tons per hour on June 25, 2003. The average opacity was measured at 0.0 percent and the highest six- (6-) minute opacity was measured at 0.0 percent. The measured average PM and PM₁₀ emission rates were 0.33 and 0.41 pounds per hour, respectively.

Mill 2 was tested at an average capacity of 11.0 tons per hour on June 26, 2003. The average opacity was measured at 0.13 percent and the highest six- (6-) minute opacity was measured at 1.25 percent. The measured average PM and PM₁₀ emission rates were 0.05 and 0.12 pounds per hour, respectively.

Mill 3 was tested at an average capacity of 12.0 tons per hour on June 27, 2003. The average opacity was measured at 0.0 percent and the highest six- (6-) minute opacity was measured at 0.0 percent. The measured average PM and PM₁₀ emission rates were 0.10 and 0.14 pounds per hour, respectively.

Mill 5 was tested at an average capacity of 21.0 tons per hour on June 28, 2003. The average opacity was measured at 5.03 percent and the highest six- (6-) minute opacity was measured at 5.42 percent. The measured average PM and PM₁₀ emission rates were 2.99 and 3.34 pounds per hour, respectively.

The following table lists the capacity of the emission unit tested, the results and the revised FESOP limit.

Facility	Description (Capacity Tested on Date)	2003 Stack Test PM Results (lbs/hr)	2003 Stack Test PM ₁₀ Results (lbs/hr)	Proposed PM ₁₀ Limit (lbs/hr)
Mill 1	Mill 1	0.33	0.41	0.75
01-FPT-001	800 ton storage silo	Not Tested		0.42
01-DFL-001	Dust free loadout	Not Tested		0.25
Mill 2	Mill 2	0.05	0.12	0.75
02-FPT-001	800 ton storage silo bin	Not Tested		0.42
Mill 3	Mill 3	0.10	0.14	0.75
03-FPT-001	800 ton storage silo bin	Not Tested		0.42
03-DFL-001	Dust free loadout	Not Tested		0.25
Mill 5	Mill 5	2.99	3.34	2.84
05-FPT-001	800 ton storage silo bin	Not Tested		0.72
05-FPT-002	800 ton storage silo bin	Not Tested		0.72
05-DFL-001	Dust free loadout	Not Tested		0.25
GAF-FPT-001	1,000 ton storage silo bin	Not Tested		Moved to cage mill system (CM-FPT-002)
GAF-SCR-001	Screening operations (52 TPH on 12/18/02)	0.0090	0.0146	Moved to cage mill system (CM-SCR-001)
GAF-DFL-001	Dust free loadout	Not Tested		Moved to cage mill system (CM-DFL-001)

Facility	Description (Capacity Tested on Date)	2003 Stack Test PM Results (lbs/hr)	2003 Stack Test PM ₁₀ Results (lbs/hr)	Proposed PM ₁₀ Limit (lbs/hr)
Mill 6	Mill 6 (22 TPH on 12/17/02)	0.056386	0.161934	2.84
Cage Mill	Penroc (CM-BNV-001) CM-SCR-001 (to be rated at at 90 TPH) (52 TPH on 12/18/02)	0.0090	0.0146	3.76
Rotary Dryer	Rotary Dryer	Not Tested (See Below for 2005 Stack Results)		3.61
CM-FPT-002	1,000 ton storage silo	Not Tested		0.52
CM-DFL-001	Truck loadout	Not Tested		0.27
Total		19.896		19.56 (equival- ent to 85.68 TPY)

Although the stack test result for the Mill 5 baghouse (an average PM₁₀ emission rate of 3.34 pounds per hour) is greater than the proposed PM₁₀ limit of 2.84 pounds per hour, the source believes that the proposed PM₁₀ emission rate will be met because the bag filter was just changed prior to the stack test. IDEM, OAQ therefore required re-testing the Mill 5 baghouse in SPR 127-18866-00038, issued on September 17, 2004.

As noted in the previous table, many of the baghouses were not tested.

- (b) Stack Tests Incorporated into SPR 127-18866-00038, issued on September 17, 2004

In order to verify compliance with NSPS Subpart OOO and the requirements of 326 IAC 2-8-4, the following performance tests were required for the cage mill system

- (1) Within sixty (60) days after achieving the maximum production rate at which the cage mill facilities will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM and opacity testing of the cage mill (CM-BNV-001), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) utilizing methods contained in 40 CFR 60.675 to demonstrate compliance with the NSPS Subpart OOO requirements. These PM and opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for the cage mill (CM-BNV-001), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003).
- (2) Within sixty (60) days after achieving the maximum production rate at which the cage mill facilities will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM₁₀ testing the cage mill (CM-BNV-001), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) utilizing Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM₁₀, or other methods as approved by the Commissioner to demonstrate compliance with Condition D.1.3. These PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for the cage mill (CM-BNV-001), and rotary dryer (RD-BNV-001). PM₁₀ includes filterable and condensable PM₁₀.

(c) Stack Tests Incorporated into SPR 127-21182-00038, issued on August 10, 2005

SPR 127-21182-00038, issued on August 10, 2005, removed the requirements to perform PM₁₀ testing of all storage silos controlled by cartridge filters because these facilities have potential to emit emissions well below the FESOP limits and would require significant modifications in order to conduct the testing.

(d) Cage Mill Pernoc Baghouse (CM-BNV-001) Stack Test Results

On September 21, 2005, O-N Minerals (Portage) Company LLC performed a stack test on the Cage Mill Penroc baghouse (CM-BNV-001) for PM and PM₁₀ as well as opacity. The maximum operating capacity is ninety (90) tons of nonmetallic minerals per hour, but the test was conducted at an average operating rate of twenty-seven (27) tons of non-metallic minerals per hour. The highest six (6) minute opacity and the average opacity were 0.0%. The average measured PM emission rate was 0.001 grain per dry standard cubic foot of exhaust air, equivalent to 0.05 pounds of PM per hour. This grain loading complies with the 0.022 grain loading limit of NSPS Subpart OOO. The stack-tested PM emission rate of 0.05 pounds per hour corresponds to an operation rate of thirty percent (30.0%) of maximum capacity. The 0.05 pounds of PM per hour directly proportioned to a full capacity of ninety (90) tons per hour is 0.167 pounds per hour. This scaled PM emission rate can comply with the allowable PM emission rate of 37.3 pounds per hour pursuant to 326 IAC 6-3-2. The average measured PM₁₀ emission rate was 0.11 pounds per hour. The stack-tested PM₁₀ emission rate of 0.11 pounds per hour corresponds to an operation rate of 30.0% of maximum capacity. The 0.11 pounds of PM₁₀ per hour directly proportioned to a full capacity of 90 tons per hour is 0.367 pounds per hour. This scaled PM₁₀ emission rate can comply with the proposed PM₁₀ emission limit of 3.764 pounds per hour. O-N Minerals (Portage) Company LLC claims that the Cage Mill Penroc baghouse (CM-BNV-001) normally operates at no more than 27 tons per hour. IDEM, OAQ will require re-testing of this baghouse, if the operational capacity is much higher than the twenty-seven (27) tons per hour.

(e) Stack Tests Proposed by this FESOP Renewal:

- (1) Within five (5) years of the last valid compliance demonstration for each facility, 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, Mill 3, Mill 5, Mill 6 and Cage Mill 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. Testing shall be in accordance with Section C – Performance Testing.
- (2) Within five (5) years of the last valid compliance demonstration for each facility, in order to demonstrate compliance with 326 IAC 2-8-4, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mills 1, 2, 3, 5, 6 and Cage Mill (Mill 1, Mill 2, Mill 3, Mill 5, Mill 6, Penroc, and rotary dryer) as approved by the Commissioner. These PM₁₀ performance tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be in accordance with Section C – Performance Testing.

The dates of the last valid stack test are shown in the following table by facility along with the reason why certain facilities do not have to be stack tested for PM₁₀.

Facility	Description	Control Device Stack	Latest Stack Test Date
Mill 1	Mill 1	Baghouse Stack 01-MDC-001	June 25, 2003
01-FPT-001	800 ton storage silo	Cartridge Filter Stack 01-BNV-001	Not required as per SPR 127-21182
01-DFL-001	Dust free loadout	Baghouse Stack 01-BNV-002	EPA Waiver (May 2, 2005)
Mill 2	Mill 2	Baghouse Stack 02-MDC-001	June 26, 2003
02-FPT-001	800 ton storage silo bin	Cartridge Filter Stack 02-BNV-001	Not required as per SPR 127-21182
Mill 3	Mill 3	Baghouse Stack 03-MDC-001	June 27, 2003
03-FPT-001	800 ton storage silo bin	Cartridge Filter Stack 03-BNV-001	Not required as per SPR 127-21182
03-DFL-001	Dust free loadout	Baghouse Stack 03-BNV-002	EPA Waiver (May 2, 2005)
Mill 5	Mill 5	Baghouse Stack 05-MDC-001	September 22, 2005
05-FPT-001	800 ton storage silo bin	Cartridge Filter Stack 05-BNV-001	Not required as per SPR 127-21182
05-FPT-002	800 ton storage silo bin	Cartridge Filter Stack 05-BNV-002	Not required as per SPR 127-21182
05-DFL-001	Dust free loadout	Baghouse Stack 05-BNV-003	EPA Waiver (May 2, 2005)
Mill 6	Mill 6	Baghouse Stack 06-MDC-001	December 17 - 18, 2002
Cage Mill	Penroc (CM-BNV-001) CM-SCR-001	Baghouse Stack CM-BNV-001	September 21, 2005
Rotary Dryer	Rotary Dryer	Baghouse Stack RD-BNV-001	September 20, 2005
CM-FPT-002	1,000 ton storage silo	Cartridge Filter Stack CM-BNV-002	Not required as per SPR 127-21182
CM-DFL-001	Truck loadout	Baghouse Stack CM-BNV-003	EPA Waiver (May 2, 2005)

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the Permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the Permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

The Mills 1, 2, 3, 5, 6 and the Cage Mill operations have applicable compliance monitoring conditions as specified below:

- (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) and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this Permit.
- (b) The Permittee shall record the pressure drop across the baghouses and cartridge filters used in conjunction with Mill 1, 2, 3, 5, and 6, and Cage Mill operations, at least once per day when Mill 1, 2, 3, 5, and 6, and the Cage Mill are in operation. 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 in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this Permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this Permit.

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

- (c) 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).

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.

These monitoring conditions are necessary because the baghouses and cartridge filters for the Mill 1, 2, 3, 5, 6 and cage mill system must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations), NSPS Subpart OOO and 326 IAC 2-8 (FESOP).

In addition, the Permittee shall comply with the reporting and recordkeeping requirements of NSPS Subpart OOO pursuant to 326 IAC 12 and 40 CFR 60.676.

Conclusion

The operation of this stationary non-metallic minerals processing plant shall be subject to the conditions of the **FESOP 127-19508-00038**.

Appendix A: Emission Calculations
Baghouse Operations

Company Name: O-N Minerals (Portage) Company LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
FESOP Renewal: F 127-19508
Pit ID: 127-00038
Reviewer: Mark L. Kramer
Application Date: June 29, 2004

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
Mill 6										
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
Cage Mill										
Cage Mill Baghouse	CM-BNV-001	99.0%	0.0100	22500	70	22500	192.86	844.7	1.93	8.45
1000 ton Storage Silo (CM-FPT-002), or	CM-BNV-002	99.0%	0.0100	600	70	600	5.14	22.5	0.051	0.225
Alternative 1000 ton Storage Silo (CM-FPT-002)	CM-BNV-002	99.0%	0.0100	3100	70	3100	26.57	116.4	0.266	1.16
Truck Load Out System (CM-DFL-001)	CM-BNV-003	99.0%	0.0100	1600	70	1600	13.71	60.1	0.137	0.601
Rotary Dryer (Rotary Dryer)	RD-BNV-001	99.0%	0.0120	21600	240	16354	168.22	736.8	1.68	7.37
						Worst Case Subtotal	401.36	1757.95	4.01	17.58
						Worst Case Total	3346	14655	10.9	47.8

The cage mill baghouses controls particulate matter from: CM-RBC-002 & 003, Penroc, CM-BEL-001, 002 & 003, CM-FPT-001, CM-SCR-001, CM-RSC-001, CM-RSC-003 & 004, CM-FPT-003, CM-RSC-002 & 005

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	2241.6	5.12	22.42
Mill 6										
Enclosed Mill System (Mill 6)	06-MDC-001	99.9%	0.022	17000	70	17000	3205.71	14041.0	3.2057	14.0
						Subtotal	3206	14041	3.21	14.0
Cage Mill										
Cage Mill Baghouse	CM-BNV-001	99.0%	0.022	22500	70	22500	424.29	1858.4	4.2429	18.58
1000 ton Storage Silo (CM-FPT-002), or	CM-BNV-002	99.0%	0.022	600	70	600	11.31	49.6	0.1131	0.496
Alternative 1000 ton Storage Silo (CM-FPT-002)	CM-BNV-002	99.0%	0.022	3100	70	3100	58.46	256.0	0.5846	2.560
Truck Load Out System (CM-DFL-001)	CM-BNV-003	99.0%	0.022	1600	70	1600	30.17	132.2	0.3017	1.322
Rotary Dryer (Rotary Dryer)	RD-BNV-001	99.0%	0.022	21600	240	16354	308.40	1350.8	3.0840	13.508
						Worst Case Subtotal	821.31	3597.34	8.213	35.97
						Worst Case Total	4991	21862	21.1	92.3

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)))

Allowable PM Emission Rate

Emission Unit (Identification)	Stack Id.	Process Weight Rate (lbs/hr)	Process Weight Rate (tons/hr)	Allowable PM Emissions (lbs/hr)
Mill 1				
Enclosed Mill System (Mill 1)	01-MDC-001	25000	12.5	22.3
Storage Silo Bin (01-FPT-001)	01-BNV-001	25000	12.5	22.3
Dust-Free Loadout (01-DFL-001)	01-BNV-002	25000	12.5	22.3
Mill 2				
Enclosed Mill System (Mill 2)	02-MDC-001	25000	12.5	22.3
Storage Silo Bin (02-FPT-001)	02-BNV-001	25000	12.5	22.3
Mill 3				
Enclosed Mill System (Mill 3)	03-MDC-001	25000	12.5	22.3
Storage Silo Bin (03-FPT-001)	03-BNV-001	25000	12.5	22.3
Dust-Free Loadout (03-DFL-001)	03-BNV-002	25000	12.5	22.3
Mill 5				
Enclosed Mill System (Mill 5)	05-MDC-001	50000	25.0	35.4
Storage Silo Bin (05-FPT-001)	05-BNV-001	50000	25.0	35.4
Storage Silo Bin (05-FPT-002)	05-BNV-002	50000	25.0	35.4
Dust-Free Loadout (05-DFL-001)	05-BNV-003	100000	50.0	44.6
Mill 6				
Enclosed Mill System (Mill 6)	06-MDC-001	50000	25.0	35.4
Cage Mill				
Cage Mill Baghouse	CM-BNV-001	180000	90.0	50.2
1000 ton Storage Silo (CM-FPT-002)	CM-BNV-002	150000	75.0	48.4
Truck Load Out System (CM-DFL-001)	CM-BNV-003	150000	75.0	48.4
Rotary Dryer (Rotary Dryer)	RD-BNV-001	180000	90.0	50.2

Methodology

Allowable Emissions = 4.10(Process Weight Rate)*0.67 for process weight rates up to 30 tons per hour
 Allowable Emissions = 55(Process Weight Rate)*0.11 - 40 for process weight rates greater than 30 tons per hour

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	0.000016	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 3									
Inside Rock Hopper	03-IRH-001	Loading	12.5	0.0000336	0.000016	0.000042	0.0002	0.00002	0.0001
Belt Conveyor	03-RBF-001	Conveying	12.5	0.00290000	0.0011000	0.03625	0.159	0.01375	0.0602
Product Lump Breaker	03-PLB-001	Screening	12.5	0.03150000	0.0150000	0.39375	1.725	0.1875	0.8213
Bucket Elevator	03-BEL-001	Conveying	12.5	0.00290000	0.0011000	0.03625	0.159	0.01375	0.0602
Inside Feed Tank	03-MFT-001	Conveying	12.5	0.00290000	0.0011000	0.03625	0.159	0.01375	0.0602
Belt Conveyor	03-RBC-001	Conveying	12.5	0.00290000	0.0011000	0.03625	0.159	0.01375	0.0602
					Subtotal	0.538792	2.360	0.24252	1.0622
Mill 5									
Outside Rock Hopper	05-ORH-001	Loading	50	0.0000336	0.000016	0.000168	0.0007	0.00008	0.0004
Belt Conveyor	05-RBF-001	Conveying	50	0.00290000	0.0011000	0.145	0.635	0.055	0.2409
Bucket Elevator	05-BEL-001	Conveying	50	0.00290000	0.0011000	0.145	0.635	0.055	0.2409
Inside Feed Tank	05-MFT-001	Conveying	50	0.00290000	0.0011000	0.145	0.635	0.055	0.2409
					Subtotal	0.435168	1.906	0.16508	0.7231
Cage Mill									
Loading Hopper	CM-ORH-001	Loading	90	0.0000336	0.000016	0.0003024	0.001	0.000144	0.0006
Transfer from Feeder to Incline Belt	CM-RBC-001	Conveying	90	0.00290000	0.0011000	0.261	1.143	0.099	0.4336
Transfer from Belt to Rotary Dryer	CM-RBF-001	Conveying	90	0.00290000	0.0011000	0.261	1.143	0.099	0.4336
					Subtotal	0.5223024	2.288	0.198144	0.8679
					Total All Mills	1.93	8.46	0.771	3.38

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).

Unpaved Road Accessing Mills 1, 2, 3, 5 and 6

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8760 hours of use and AP-42, Ch 13.2.2.

$$2.5 \text{ trip/hr} \times 0.15 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8760 \text{ hr/yr} = 6570 \text{ miles per year}$$

6570.0 miles per year

$$Ef = \{k^2[(s/12)^2 \times 0.8]^2[(W/3)^b] / [(Mdry/0.2)^c]\}^{1/4} [(365-p)/365]$$

	For PM	For PM-10	
EF =	6.45	1.45	lb/mile
where k =	10	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	4.8	4.8	mean % silt content of unpaved roads
b =	0.5	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.4	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	12.5	12.5	tons average vehicle weight
Mdry =	0.2	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
p =	125	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

			Before Controls	Control Eff. 50%	After Controls
PM	6.45 lb/mi x	6570.0 mi/yr =		21.18 tons/yr	10.6 tons/yr
		2000 lb/ton			
PM-10	1.45 lb/mi x	6570.0 mi/yr =		4.78 tons/yr	2.39 tons/yr
		2000 lb/ton			

** Paved Haul Roads **

Unpaved Road Accessing Cage Mill

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1.3 (12/2003).

$$2.77777778 \text{ trip/hr} \times 0.085 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8760 \text{ hr/yr} = 4136.66667 \text{ miles per year}$$

Note that 15 tons per hour of the 90 ton per hour capacity are recycled.

Throughput	75 tons/hr
Annual Throughput	657000 tons
27 tons/trip	24333.33333 trips

E =	2.39	PM	0.47	PM-10	0.016	lb/mile
where k =	0.082					(particle size multiplier from AP-42 Table 13.2-1.1)
sL =	2.4					2.4 road surface silt loading (g/m ²)
W =	27.9					27.9 average weight of vehicle (tons)
P =	125					125 average number of days with measurable precipitation
C =	0.00047					0.00047 emission factor for vehicle fleet exhaust
N =	365					365 number of days in the averaging period

			Before Controls	Control Eff. 50%	After Controls
E =	2.39 lb/mi x	4136.66667 mi/yr =	4.952 tons/yr	of PM	2.48 tons/yr
		2000 lb/ton			
E =	0.47 lb/mi x	4136.67 mi/yr =	0.966 tons/yr	of PM-10	0.483 tons/yr
		2000 lb/ton			

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

M = 4.0 % moisture

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

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

= 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

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

PM & PM-10 = 1.86 tons/yr After Controls **0.931 tons/yr**
 where sc = 150,000 tons storage capacity

Heat Input Capacity	Potential Throughput	Insignificant Space Heaters		Heat Input Capacity
MMBtu/hr	MMCF/yr	Cage Mill	Rotary Dryer	MMBtu/hr
25.00	219			1.000 24.000

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		
Total Potential Emissions (tons/yr)	0.208	0.832	0.066	10.950	0.602	9.198
Rotary Dryer Alone (tons/yr)	0.200	0.799	0.063	10.512	0.578	8.830
Space Heaters Alone (tons/yr)	0.008	0.033	0.003	0.438	0.024	0.368

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

Methodology

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

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	0.000230	0.000131	0.008213	0.197100	0.000372

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)	0.000055	0.000120	0.000153	0.000042	0.000230	0.207
Rotary Dryer Alone (tons/yr)						0.1984
Space Heaters Alone (tons/yr)						0.0083

Methodology is the same as above.

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

Summary of Emission Before Controls (tons/yr)

Emission Unit (Identification)	Stack Identification	PM	PM-10	SO2	NOx	VOC	CO	Total HAPs
Mill 1								
Enclosed Mill System (Mill 1)	01-MDC-001	168.9	168.9					
Storage Silo Bin (01-FPT-001)	01-BNV-001	93.9	93.9					
Dust-Free Loadout (01-DFL-001)	01-BNV-002	56.3	56.3					
Outside Rock Hopper (01-ORH-001)		0.0006	0.00026					
Belt Conveyor (01-RBF-001)		0.476	0.181					
Mill Feed Tank (01-MFT-001)		0.476	0.181					
Bucket Elevator (01-BEL-001)		0.476	0.181					
Belt Conveyor (01-RBC-001)		0.476	0.181					
Subtotal		321.0	319.8					
Mill 2								
Enclosed Mill System (Mill 2)	02-MDC-001	168.9	168.9					
Storage Silo Bin (02-FPT-001)	02-BNV-001	93.9	93.9					
Subtotal		262.8	262.8					
Mill 3								
Enclosed Mill System (Mill 3)	03-MDC-001	168.9	168.9					
Storage Silo Bin (03-FPT-001)	03-BNV-001	93.9	93.9					
Dust-Free Loadout (03-DFL-001)	03-BNV-002	56.3	56.3					
Inside Rock Hopper (03-IRH-001)		0.0002	0.0001					
Belt Conveyor (03-RBF-001)		0.159	0.0602					
Product Lump Breaker (03-PLB-001)		1.725	0.821					
Bucket Elevator (03-BEL-001)		0.159	0.060					
Inside Feed Tank (03-MFT-001)		0.159	0.060					
Belt Conveyor (03-RBC-001)		0.159	0.060					
Subtotal		321.5	320.2					
Mill 5								
Enclosed Mill System (Mill 5)	05-MDC-001	638.2	638.2					
Storage Silo Bin (05-FPT-001)	05-BNV-001	162.2	162.2					
Storage Silo Bin (05-FPT-002)	05-BNV-002	162.2	162.2					
Dust-Free Loadout (05-DFL-001)	05-BNV-003	56.3	56.3					
Outside Rock Hopper (05-ORH-001)		0.0007	0.0004					
Belt Conveyor (05-RBF-001)		0.635	0.241					
Bucket Elevator (05-BEL-001)		0.635	0.241					
Inside Feed Tank (05-MFT-001)		0.635	0.241					
Subtotal		1020.8	1019.6					
Mill 6								
Enclosed Mill System (Mill 6)	06-MDC-001	10977.5	10977.5					
Cage Mill								
Cage Mill Baghouse	CM-BNV-001	844.7	844.7					
1000 ton Storage Silo (CM-FPT-002), or Alternative 1000 ton Storage Silo (CM-FPT-002)	CM-BNV-002	22.5	22.5					
Truck Load Out System (CM-DFL-001)	CM-BNV-003	60.1	60.1					
Rotary Dryer (Rotary Dryer)	RD-BNV-001	736.8	736.8					
Loading Hopper (CM-ORH-001)		0.001	0.0006					
Transfer from Feeder to Incline Belt (CM-RBC-001)		1.14	0.434					
Transfer from Belt to Rotary Dryer (CM-RBF-001)		1.14	0.434					
Worst Case Subtotal		1760.2	1758.8					
Subtotal Significant Emission Units		14663.9	14658.8					
Unpaved Roads (All)		26.1	5.74					
Truck Loading and Unloading (All)		0.713	0.337					
Storage		1.86	1.86					
Natural Gas Combustion		0.208	0.832	0.066	11.0	0.602	9.20	0.207
Other Insignificant Activities		0.000	0.000	0.000	0.0	3.000	0.00	0.500
Subtotal Insignificant Activities		28.918	8.773	0.066	11.0	3.60	9.198	0.707
Grand Total		14692.8	14667.6	0.066	11.0	3.60	9.20	0.707

Summary of Emission After Controls (tons/yr)

Emission Unit (Identification)	Stack Identification	PM	PM-10	SO2	NOx	VOC	CO	Total HAPs
Mill 1								
Enclosed Mill System (Mill 1)	01-MDC-001	1.689	1.689					
Storage Silo Bin (01-FPT-001)	01-BNV-001	0.939	0.939					
Dust-Free Loadout (01-DFL-001)	01-BNV-002	0.563	0.563					
Outside Rock Hopper (01-ORH-001)	01-ORH-001	0.0006	0.00026					
Belt Conveyor (01-RBF-001)	01-RBF-001	0.476	0.181					
Mill Feed Tank (01-MFT-001)	01-MFT-001	0.476	0.181					
Bucket Elevator (01-BEL-001)	01-BEL-001	0.476	0.181					
Belt Conveyor (01-RBC-001)	01-RBC-001	0.476	0.181					
Subtotal		5.097	3.914					
Mill 2								
Enclosed Mill System (Mill 2)	02-MDC-001	1.689	1.689					
Storage Silo Bin (02-FPT-001)	02-BNV-001	0.939	0.939					
Subtotal		2.628	2.628					
Mill 3								
Enclosed Mill System (Mill 3)	03-MDC-001	1.689	1.689					
Storage Silo Bin (03-FPT-001)	03-BNV-001	0.939	0.939					
Dust-Free Loadout (03-DFL-001)	03-BNV-002	0.563	0.563					
Inside Rock Hopper (03-IRH-001)	03-IRH-001	0.0002	0.00009					
Belt Conveyor (03-RBF-001)	03-RBF-001	0.159	0.060					
Product Lump Breaker (03-PLB-001)	03-PLB-001	1.725	0.821					
Bucket Elevator (03-BEL-001)	03-BEL-001	0.159	0.060					
Inside Feed Tank (03-MFT-001)	03-MFT-001	0.159	0.060					
Belt Conveyor (03-RBC-001)	03-RBC-001	0.159	0.060					
Subtotal		5.551	4.253					
Mill 5								
Enclosed Mill System (Mill 5)	05-MDC-001	6.382	6.382					
Storage Silo Bin (05-FPT-001)	05-BNV-001	1.622	1.622					
Storage Silo Bin (05-FPT-002)	05-BNV-002	1.622	1.622					
Dust-Free Loadout (05-DFL-001)	05-BNV-003	0.563	0.563					
Outside Rock Hopper (05-ORH-001)	05-ORH-001	0.0007	0.0004					
Belt Conveyor (05-RBF-001)	05-RBF-001	0.635	0.241					
Bucket Elevator (05-BEL-001)	05-BEL-001	0.635	0.241					
Inside Feed Tank (05-MFT-001)	05-MFT-001	0.635	0.241					
Subtotal		12.095	12.095					
Mill 6								
Enclosed Mill System (Mill 6)	06-MDC-001	10.978	10.978					
Cage Mill								
Cage Mill Baghouse	CM-BNV-001	8.447	8.447					
1000 ton Storage Silo (CM-FPT-002), or	CM-BNV-002	0.225	0.225					
Alternative 1000 ton Storage Silo (CM-FPT-002)	CM-BNV-002	1.164	1.164					
Truck Load Out System (CM-DFL-001)	CM-BNV-003	0.601	0.601					
Rotary Dryer (Rotary Dryer)	RD-BNV-001	7.368	7.368					
Loading Hopper (CM-ORH-001)	CM-ORH-001	0.001	0.001					
Transfer from Feeder to Incline Belt (CM-RBC-001)	CM-RBC-001	1.14	0.434					
Transfer from Belt to Rotary Dryer (CM-RBF-001)	CM-RBF-001	1.14	0.434					
Worst Case Subtotal		19.9	18.4					
Subtotal Significant Emission Units		56.2	52.3					
Unpaved Roads (All)		13.068	2.871					
Truck Loading and Unloading (All)		0.713	0.337					
Storage		0.931	0.931					
Natural Gas Combustion		0.208	0.832	0.066	11.0	0.602	9.20	0.207
Other Insignificant Activities		0.000	0.000	0.000	0.0	3.000	0.00	0.500
Subtotal Insignificant Activities		14.9	4.971	0.066	11.0	3.60	9.20	0.707
Grand Total		71.1	57.3	0.066	11.0	3.60	9.20	0.707