



Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

September 17, 2004

100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015
(317) 232-8603
(800) 451-6027
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Global Stone Portage, LLC / 127-18866-00038

FROM: Paul Dubenetzky
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 9/16/03



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Joseph E. Kernan
Governor

Lori F. Kaplan
Commissioner

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September 17, 2004

Ms. Belinda Speer
Global Stone Portage, LLC
165 Steel Drive
Portage, Indiana 46368

Re: **127-18866**
Second Significant Revision to
FESOP 127-11241-00038

Dear Ms. Speer:

Global Stone Portage, LLC was issued a permit on March 22, 2000 for a non-metallic mineral processing source. A letter requesting changes to this permit was received on April 19, 2004. Pursuant to the provisions of 326 IAC 2-8-11.1(f) a Significant Permit Revision to this permit is hereby approved as described in the attached Technical Support Document.

The revision consists of changes in the PM₁₀ emission limits for all facilities, the addition of a cage mill system and the correction of the type of control device installed on existing storage silo bins from baghouses to cartridge filters.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. For your

convenience, the entire revised FESOP, with all revisions and amendments made to it, will be provided upon approval.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact reviewer, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Original Signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
MES/MES

cc: File - Porter County
U.S. EPA, Region V
Porter County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Rick Massoels
Compliance Branch - Karen Ampril
Administrative and Development Section
Technical Support and Modeling - Michele Boner



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 Commissioner

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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)

OFFICE OF AIR QUALITY

**Global Stone Portage, 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.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 127-11241-00038	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 22, 2000 Expiration Date: March 22, 2005

First Administrative Amendment 127-12714-00038, issued on December 8, 2000
 First Reopening 127-13096-00038, issued on January 16, 2002
 First Significant Permit Revision 127-14989, issued on February 4, 2002
 Second Administrative Amendment 127-17831-00038, issued on July 31, 2003
 Third Administrative Amendment 127-18024-00038, issued on December, 29 2003

Second Significant Permit Revision No.: 127-18866-00038	Conditions Affected: A.1, A.2, A.3, D.1.1 - D.1.11 Section Affected: D.1
Issued by: Original Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: September 17, 2004

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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.

Authorized Individual:	General Manager
Source Address:	165 Steel Drive, Portage, Indiana 46368
Mailing Address:	165 Steel Drive, Portage, Indiana 46368
Phone Number:	219-787-9190
SIC Code:	1422
County Location:	Porter
County Status:	Nonattainment for ozone under the 1 and 8-hour standards Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules; and nonattainment NSR Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) 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, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, known 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, known 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, known 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, known as 01-ORH-001, exhausted through Stack 01-ORH-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (f) One (1) belt conveyor, known as 01-RBF-001, exhausted through Stack 01-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

- (g) Two (2) mill feed tanks, known as 01-MFT-001 and 01-MFT-002, exhausted through Stacks 01-MFT-001 and 01-MFT-002, installed in April 1992, storage capacity: 300 tons of non-metallic minerals each, throughput capacity: 12.5 tons of non-metallic minerals per hour each.
- (h) One (1) bucket elevator, known as 01-BEL-001, exhausted through Stack 01-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (i) One (1) belt conveyor, known as 01-RBC-001, exhausted through Stack 01-RBC-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Mill 2

- (j) One (1) enclosed mill system, known 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, known 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, known 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, known 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, known 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, known as 03-IRH-001, exhausted through Stack 03-IRH-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (p) One (1) belt conveyor, known as 03-RBF-001, exhausted through Stack 03-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (q) One (1) product lump breaker, known as 03-PLB-001, exhausted through Stack 03-PLB-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (r) One (1) bucket elevator, known as 03-BEL-001, exhausted through Stack 03-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (s) One (1) inside feed tank, known as 03-MFT-001, exhausted through Stack 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, known as 03-RBC-001, exhausted through Stack 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, known 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, known 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, known as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (x) One (1) outside rock hopper, known as 05-ORH-001, exhausted through Stack 05-ORH-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (y) One (1) belt conveyor, known as 05-RBF-001, exhausted through Stack 05-RBF-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (z) One (1) bucket elevator, known as 05-BEL-001, exhausted through Stack 05-BEL-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (aa) One (1) inside feed tank, known as 05-MFT-001, exhausted through Stack 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 25 tons of non-metallic minerals per hour.

Mill 6

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

Cage Mill

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

or

- (dd) Two (2) screw conveyors, known as CM-RSC-003 & 004, one (1) storage bin, known as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- (ee) Two (2) screw conveyors, known as CM-RSC-002 & 005, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 15 tons of non-metallic minerals per hour.
- (ff) One (1) rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, for particulate matter control and exhausted through stack RD-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, known as CM-FPT-002, equipped with a cartridge filter, known as CM-BNV-002, for particulate matter control and exhausted through stack CM-BNV-002, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, for particulate matter control and exhausted through stack CM-BNV-003, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, known as CM-ORH-001, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) inclined belt conveyor, known as CM-RBC-001, capacity: 90 tons of non-metallic minerals per hour.

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

This stationary source also includes the following insignificant activities, 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.
- (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.
- (h) Uncontrolled product transfer with particulate matter emissions less than five (5) pounds per hour or twenty-five (25) pounds per day.

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

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

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, when applicable shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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.

B.2 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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

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

B.5 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.6 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.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAQ, along with

a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAQ, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 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.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:

- (1) Enforcement action;
- (2) Permit termination, revocation and reissuance, or modification; and
- (3) Denial of a permit renewal application.

(b) 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.

B.11 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 under this permit shall contain certification by a 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, on the attached Certification Form, with each submittal.

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

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(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 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, IDEM, OAQ, may require to determine the compliance status of the source.

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

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, 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;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAQ, upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.14 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 describes the following:

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

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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 the "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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) 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 compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

B.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 Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

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

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

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 FESOP 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)]
- (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).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (B) 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.
- (2) If IDEM, OAQ, upon receiving a timely and complete 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.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
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 needed to process the application.

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

- (a) The Permittee must comply with 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) only if a certification is required by the terms of the applicable rule.
- (c) The Permittee may implement the 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]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without 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 2-1.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to 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), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

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

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

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in 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).
- (d) 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.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-8-5(a)(4)]

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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does not require the certification by the "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 2-8-11(b)(3)]

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. 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 317-233-4320 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any regulated pollutant, including PM₁₀, from the entire source, except particulate matter (PM) and volatile organic compounds (VOCs), shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period;
- (3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), emissions of 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.

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

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

C.2 Opacity [326 IAC 5-1]

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

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

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plans 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.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

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 61.140]

- (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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "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 14-10-4 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) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAQ, within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. 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 Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

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

C.12 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

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

C.14 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.

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

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

(a) Submit:

- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
- (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- (3) A verification to IDEM, OAQ, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

(b) Provide annual certification to IDEM, OAQ, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.16 Compliance Response Plan - Failure to take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5][326 IAC 1-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ, upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:

- (1) Response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps were taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.
- C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]
- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a

description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ reserves the authority to use enforcement activities to resolve noncompliant stack tests.

- (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. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

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

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

C.18 Monitoring Data Availability

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

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

- (a) Records of all required monitoring data and support information 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 kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ, representative. 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 written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;

- (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) 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)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(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, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (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, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

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)]:

- (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, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, known 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, known 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, known 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, known as 01-ORH-001, exhausted through Stack 01-ORH-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (f) One (1) belt conveyor, known as 01-RBF-001, exhausted through Stack 01-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (g) Two (2) mill feed tanks, known as 01-MFT-001 and 01-MFT-002, exhausted through Stacks 01-MFT-001 and 01-MFT-002, installed in April 1992, storage capacity: 300 tons of non-metallic minerals each, throughput capacity: 12.5 tons of non-metallic minerals per hour each.
- (h) One (1) bucket elevator, known as 01-BEL-001, exhausted through Stack 01-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (i) One (1) belt conveyor, known as 01-RBC-001, exhausted through Stack 01-RBC-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Mill 2

- (j) One (1) enclosed mill system, known 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, known 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, known 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, known 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, known 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, known as 03-IRH-001, exhausted through Stack 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

Mill 3

- (p) One (1) belt conveyor, known as 03-RBF-001, exhausted through Stack 03-RBF-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (q) One (1) product lump breaker, known as 03-PLB-001, exhausted through Stack 03-PLB-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (r) One (1) bucket elevator, known as 03-BEL-001, exhausted through Stack 03-BEL-001, installed in April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (s) One (1) inside feed tank, known as 03-MFT-001, exhausted through Stack 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, known as 03-RBC-001, exhausted through Stack 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, known 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, known 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, known as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (x) One (1) outside rock hopper, known as 05-ORH-001, exhausted through Stack 05-ORH-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (y) One (1) belt conveyor, known as 05-RBF-001, exhausted through Stack 05-RBF-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (z) One (1) bucket elevator, known as 05-BEL-001, exhausted through Stack 05-BEL-001, installed in March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (aa) One (1) inside feed tank, known as 05-MFT-001, exhausted through Stack 05-MFT-001, installed in March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 25 tons of non-metallic minerals per hour.

Mill 6

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

Cage Mill

- (cc) Two (2) belt conveyors, known as CM-RBC-002 & 003, one (1) cage mill, known as Penroc, three (3) bucket elevators, known as CM-BEL-001 - 003, one (1) dry stone storage bin, known as CM-FPT-001, one (1) screening operation, known as CM-SCR-001 and one (1) screw conveyor, known as CM-RSC-001, equipped with a baghouse, known as CM-BNV-001, for particulate matter control and exhausted through stack CM-BNV-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.)

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

- (dd) One (1) belt conveyor, known as CM-RBC-005, one (1) bucket elevator, known as CM-BEL-004, and two (2) screw conveyors, known as CM-RSC-003 & 004, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- or
- (dd) Two (2) screw conveyors, known as CM-RSC-003 & 004, one (1) storage bin, known as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- (ee) Two (2) screw conveyors, known as CM-RSC-002 & 005, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 15 tons of non-metallic minerals per hour.
- (ff) One (1) rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, for particulate matter control and exhausted through stack RD-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, known as CM-FPT-002, equipped with a cartridge filter, known as CM-BNV-002, for particulate matter control and exhausted through stack CM-BNV-002, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, for particulate matter control and exhausted through stack CM-BNV-003, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, known as CM-ORH-001, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) inclined belt conveyor, known 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 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 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 10 percent opacity, except as provided in paragraphs (c), (d), and (e).
- (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 Sec. 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 section.
- (e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c), 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 Sec. 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 Sec. 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).
- (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.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

- (a) Pursuant to CP 127-5063-00038, issued on February 28, 1997, the allowable particulate matter from the Mill 5 operations (Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001) shall not exceed 35.4 pounds per hour each when operating at a process weight rate of 25.0 tons per hour each.
- (b) The allowable particulate matter (PM) emission rate from the Mill 1, 2, and 3 operations for Mill 1 (Mill 1, 01-FPT-001 and 01-DFL-001), for Mill 2 (Mill 2 and 02-FPT-001) and for Mill 3 (Mill 3, 03-FPT-001 and 03-DFL-001) shall not exceed 22.3 pounds per hour each when operating at a process weight rate of 12.5 tons per hour each.
- (c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the baghouse, known as CM-BNV-001, associated with the cage mill system and the rotary dryer baghouse, known as RD-BNV-001, shall not exceed 50.25 pounds per hour, each when operating at process weight rates of 90.0 tons per hour, each.

- (d) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from storage silo exhaust stack CM-BNV-002 and the truck loadout baghouse, known as CM-BNV-003, shall not exceed 48.4 pounds per hour, each when operating at process weight rates of 75.0 tons per hour, each.

The allowable PM emission rates are calculated with the following equations:

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

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

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

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

D.1.3 PM₁₀ [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the combined PM₁₀ emissions from the facilities in Section D.1 shall not exceed a total of 85.7 tons per year.
- (b) Pursuant to 326 IAC 2-8-4, the individual emissions units 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 PM₁₀ emission limits:

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)
Mill 1	0.7528
01-FPT-001	0.4182
01-DFL-001	0.2509
Mill 2	0.7528
02-FPT-001	0.4182
Mill 3	0.7528
03-FPT-001	0.4182
03-DFL-001	0.2509
Mill 5	2.8439
05-FPT-001	0.7227
05-FPT-002	0.7227
05-DFL-001	0.2509
Mill 6	2.8439
Cage Mill	3.7640
Rotary Dryer	3.6134
CM-FPT-002	0.5186
CM-DFL-001	0.2677

- (c) Compliance with these PM₁₀ emission limits will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.4 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.1.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

- (a) During the period between 30 and 36 months after issuance of this FESOP, the Permittee shall perform PM or opacity testing of all facilities in Section D.1 utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (b) During the period between 30 and 36 months after issuance of this FESOP, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mills 1, 2, 3 and 5 (Mill 1, 01-FPT-001, 01-DFL-001, Mill 2, 02-FPT-001, Mill 3, 03-FPT-001, 03-DFL-001, 05-FPT-001, 05-FPT-002 and 05-DFL-001) 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 Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (c) Within 60 days after achieving the maximum production rate at which Mill 6 will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM or opacity testing of Mill 6 utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for Mill 6. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.

- (d) Within 60 days after achieving the maximum production rate at which Mill 6 will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM₁₀ testing Mill 6 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 Mill 6. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (e) Within 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 or 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 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or 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). In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (f) Within 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 of the cage mill (CM-BNV-001), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) as well as the Mill 5 (Mill 5) baghouse 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), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) as well as the Mill 5 (Mill 5) baghouse. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.

The testing requirements presented in this condition for Mill 5 supercede the testing conditions for Mill 5 in Condition D.1.5(b) of this permit.

D.1.6 Particulate Matter (PM and PM₁₀)

- (a) Pursuant to CP 127-5063-00038, issued on February 28, 1997 and CP 127-1915-00038, issued on April 15, 1991, the baghouses for PM control shall be in operation at all times when the Mills 1, 2, 3, and 5 are in operation.
- (b) The cartridge filters for PM control shall be in operation at all times when the Mills 1, 2, 3, and 5 are in operation.
- (c) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from Mill 6 at all times when Mill 6 is in operation.
- (d) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.

- (e) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.
- (f) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the storage silo (CM-BNV-002) at all times when the silo is in operation.
- (g) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the stack exhausts for Mill 1 (01-MDC-001, 01-BNV-001 and 01-BNV-002), for Mill 2 (02-MDC-001 and 02-BNV-001), for Mill 3 (03-MDC-001, 03-BNV-001 and 03-BNV-002), for Mill 5 (05-MDC-001, 05-BNV-001, 05-BNV-002 and 05-BNV-003), for Mill 6 and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) shall be performed once per shift 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.8 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the baghouses and cartridge filters used in conjunction with Mill 1, 2, 3 and 5 operations, at least once per shift 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-Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge 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 total static pressure drop across the baghouse used in conjunction with Mill 6, at least once per shift while the facility 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- Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge 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 total static 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 shift while the facility 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- Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

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

D.1.9 Baghouse and Cartridge Filter Inspections

An inspection shall be performed each calendar quarter of all bags and cartridge filters controlling the Mill 1, 2, 3, 5 and 6 and the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) operations when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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 single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.11 Record Keeping Requirements

- (a) To document compliance with Condition D.1.7, 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 and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) once per shift.
- (b) To document compliance with Condition D.1.8, the Permittee shall maintain the following:
- (1) Records of the following operational parameters once per shift during normal operation when venting to the atmosphere:

Inlet and outlet differential static pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9 and the dates the vents are re-directed.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (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)

(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 (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.

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

D.2.2 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance with Condition D.2.1.

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

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

Source Name: Global Stone Portage, LLC
Source Address: 165 Steel Drive, Portage, Indiana 46368
Mailing Address: 165 Steel Drive, Portage, Indiana 46368
FESOP No.: F 127-11241-00038

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
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Global Stone Portage, LLC
Source Address: 165 Steel Drive, Portage, Indiana 46368
Mailing Address: 165 Steel Drive, Portage, Indiana 46368
FESOP No.: F 127-11241-00038

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 317-233-5674, ask for Compliance Section); and The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), 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: Global Stone Portage, LLC
 Source Address: 165 Steel Drive, Portage, Indiana 46368
 Mailing Address: 165 Steel Drive, Portage, Indiana 46368
 FESOP No.: F 127-11241-00038

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

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

Source Background and Description

Source Name:	Global Stone Portage, 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
Significant Permit Revision No.:	SPR 127-18866-00038
Permit Reviewer:	Mark L. Kramer

The Office of Air Quality (OAQ) has reviewed a significant permit revision application from Global Stone Portage, LLC relating to the construction and operation of the following emission units and pollution control devices:

Cage Mill

- (cc) Two (2) belt conveyors, known as CM-RBC-002 & 003, one (1) cage mill, known as Penroc, three (3) bucket elevators, known as CM-BEL-001 - 003, one (1) dry stone storage bin, known as CM-FPT-001, one (1) screening operation, known as CM-SCR-001 and one (1) screw conveyor, known as CM-RSC-001, equipped with a baghouse, known as CM-BNV-001, for particulate matter control and exhausted through stack CM-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
 - (dd) One (1) belt conveyor, known as CM-RBC-005, one (1) bucket elevator, known as CM-BEL-004, and two (2) screw conveyors, known as CM-RSC-003 & 004, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- or
- (dd) Two (2) screw conveyors, known as CM-RSC-003 & 004, one (1) storage bin, known as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
 - (ee) Two (2) screw conveyors, known as CM-RSC-002 & 005, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 15 tons of non-metallic minerals per hour.
 - (ff) One (1) rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, for particulate matter control and exhausted through stack RD-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
 - (gg) One (1) 1,000 ton storage silo, known as CM-FPT-002, equipped with a cartridge filter, known as CM-BNV-002, for particulate matter control and exhausted through stack CM-BNV-002, capacity: 75 tons of non-metallic minerals per hour.

- (hh) One (1) truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, for particulate matter control and exhausted through stack CM-BNV-003, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, known as CM-ORH-001, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) inclined belt conveyor, known as CM-RBC-001, capacity: 90 tons of non-metallic minerals per hour.

Global Stone Portage, LLC also requested that following equipment previously permitted, but never put into service, be moved to the cage mill system with identification and capacity changes.

~~GAF~~

- ~~(bb) One (1) lime silo, identified as GAF-FPT-001, equipped with a baghouse and exhausting through stack GAF-BNV-001, capacity: 1,000 tons.~~
- ~~(cc) One (1) screening operation, identified as GAF-SCR-001, equipped with a baghouse and exhausting through stack GAF-BNV-002, capacity: 60 tons per hour.~~
- ~~(dd) One (1) truck loadout operation, identified as GAF-DFL-001, equipped with a baghouse and exhausting through stack GAF-BNV-003, capacity: 25 tons per hour.~~

In addition, Global Stone Portage, LLC also requested that following insignificant activity be added to the list of insignificant activities in Condition A.3:

- (h) Uncontrolled product transfer with particulate matter emissions less than five (5) pounds per hour or twenty-five (25) pounds per day.

The source also requested that the installed control devices, identified as baghouses, be corrected to indicate that cartridge filters are installed on the storage silo bins (01-FPT-001, 01-FPT-002, 03-FPT-001, 05-FPT-001 and 05-FPT-002).

History

On April 19, 2004, Global Stone Portage, LLC submitted an application to the OAQ requesting to add a cage mill system to their existing plant. Global Stone Portage, LLC was issued a Federally Enforceable State Operating Permit (FESOP) on March 22, 2000. The first significant permit revision (127-14989) was issued on February 4, 2002. Three (3) administrative amendments (127-12714, 17831 and 18024) were issued on December 7, 2000, July 31, 2003 and December 29, 2003, respectively. A reopening (127-13096) was issued January 16, 2002.

Although Global Stone Portage, LLC is "relocating" an existing screening operation, storage silo and truck loadout system, these facilities were never put into service. In addition, their capacities were less than the proposed capacities and therefore, all of these facilities are being reviewed as part of this application.

Enforcement Issue

- (a) IDEM is aware that certain stack tests on baghouse (01-FPT-001, 01-DFL-001, 02-FPT-001, 03-FPT-001, 03-DFL-001, 05-FPT-001, 05-FPT-002 and 05-DFL-001) required by Condition D.1.5(b) of F 127-11241-00038, issued March 22, 2000, have not been performed.

- (b) IDEM is reviewing this matter and will take appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (EF)
CM-BNV-001	Cage Mill Dust Collector	26	2.99	22,500	ambient
CM-BNV-002	1000 ton Storage Silo	85	1.26	600	ambient
CM-BNV-003	Truck Loadout	27	0.729	1,600	ambient
RD-BNV-001	Rotary Dryer	26	2.99	21,600	240

Recommendation

The staff recommends to the Commissioner that the FESOP Significant Permit Revision 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 application for the purposes of this review was received on April 19, 2004. Additional information was received on June 7, 2004.

Emission Calculations

See pages 1 - 4 of Appendix A of this document for detailed emissions calculations.

Potential To Emit of Revision

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

This table reflects the PTE before controls for this revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	1,765
PM ₁₀	1,761
SO ₂	0.063
VOC	0.578
CO	8.83
NO _x	10.5

HAPs	Potential To Emit (tons/year)
Benzene	0.0002
Dichlorobenzene	0.0001
Formaldehyde	0.008
Hexane	0.189
Toluene	0.0004
Lead Compounds	0.00005
Cadmium Compounds	0.0001
Chromium Compounds	0.0001
Manganese Compounds	0.00004
Nickel Compounds	0.0002
TOTAL	0.198

Justification for Revision

The FESOP is being revised through a FESOP Significant Permit Revision. This revision is being performed pursuant to 326 IAC 2-8-11.1(f)(1) and 326 IAC 2-8-11.1(g)(3) since the potential to emit PM and PM₁₀ from this revision is greater than twenty-five (25) tons per year and will change PM₁₀ limits on existing emission units at the source, respectively.

County Attainment Status

The source is located in Porter County.

Pollutant	Status
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	severe nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Porter County has been designated as nonattainment for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Porter County has been classified as attainment or unclassifiable for all remaining criteria pollutants). Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive PM emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	103
PM ₁₀	99.5
SO ₂	0.092
VOC	3.24
CO	12.9
NO _x	15.4

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the 28 listed source categories.
- (b) These emissions are based upon the Technical Support Document for SPR 127-14989, issued February 4, 2002.

Potential to Emit of Revision After Issuance

The potential to emit PM₁₀ after controls from the cage mill system before imposing limits when added to the existing PM₁₀ emission limits in the FESOP exceed one hundred (100) tons per year. Therefore, the source has requested that the existing FESOP PM₁₀ emission limits be revised as part of this revision.

The potential to emit PM₁₀ from the uncontrolled existing and proposed facilities and operations are as follows: Note that the uncontrolled emissions associated with the operations permitted as GAF will still exist at the source and be associated with the proposed Cage Mill System.

Facilities/ Operations	Potential to Emit PM ₁₀ From Existing Permitted Mills 1, 2, 3, & 5 (tons/yr)	Potential to Emit PM ₁₀ From Existing Permitted Mill 6 and GAF (tons/yr)	Potential to Emit PM ₁₀ From the Proposed Cage Mill System (tons/yr)	Total Potential to Emit PM ₁₀ (tons/yr)
Roads	2.39	4.78	0.97	8.14
Non- baghouse/Cartridge Filter Units (material transfer and Dryer Combustion)	1.91	0.33	1.67	3.91
Loading/Unloading	0.22	0.12	0.00	0.34
Storage Piles	0.93	0.00	0.00	0.93
Total	5.45	5.23	2.64	13.32

The existing FESOP PM₁₀ emission limit was 99.00 tons per year. Subtracting the non-controlled PM₁₀ emissions of 13.32 tons per year yields a remainder of 85.68 tons per year to be re-apportioned across the existing and proposed facilities with control devices. The proposed revision represents 2.64 tons per year and the existing source contributes 5.45 + 5.23 = 10.68 tons per year

The following table summarizes the revised potential to emit, reflecting all limits, of all emission units after controls. The revised PM₁₀ limits for the facilities equipped with control devices are as follows:

Facility	Description	Existing PM ₁₀ Limit (lbs/hr)	Proposed PM ₁₀ Limit (lbs/hr)
Mill 1	Mill 1	1.1600	0.7528
01-FPT-001	800 ton storage silo	0.6480	0.4128
01-DFL-001	Dust free loadout	0.3880	0.2509
Mill 2	Mill 2	1.1600	0.7528
02-FPT-001	800 ton storage silo bin	0.6480	0.4182
Mill 3	Mill 3	1.1600	0.7528
03-FPT-001	800 ton storage silo bin	0.6480	0.4182
03-DFL-001	Dust free loadout	0.3880	0.2509
Mill 5	Mill 5	4.3900	2.8439
05-FPT-001	800 ton storage silo bin	1.1200	0.7227
05-FPT-002	800 ton storage silo bin	1.1200	0.7227
05-DFL-001	Dust free loadout	0.3880	0.2509
GAF-FPT-001	1,000 ton storage silo bin	0.7670	Moved to proposed cage mill system (CM-FPT-002)
GAF-SCR-001	Screening Operations	1.1500	Moved to proposed cage mill system (CM-SCR-001)
GAF-DFL-001	Dust free loadout	0.4110	Moved to proposed cage mill system (CM-DFL-001)
Mill 6	Mill 6	4.3500	2.8439
Cage Mill	Cage Mill (CM-BNV-001)	-	3.7640
Rotary Dryer	Rotary Dryer	-	3.6134
CM-FPT-002	1,000 ton storage silo	-	0.5186
CM-DFL-001	Dust free loadout	-	0.2677
Total		19.896	19.56 (equivalent to 85.68 TPY)

The addition of the cage mill system will necessitate the above hourly PM₁₀ emission rates. In addition, the hourly PM₁₀ emissions rates for the existing controlled emission units have been revised. The sum of the hourly limited PM₁₀ emission rates for the proposed cage mill system from the above table is 8.16 pounds per hour, equivalent to 35.8 tons per year, in addition to the 2.64 tons per year from the uncontrolled material transfer, dryer combustion and roads for a total of 38.4 tons per year.

The sum of the proposed hourly limited PM₁₀ emission rates for the existing controlled emission units from the above table is 11.40 pounds per hour, equivalent to 49.9 tons per year, in addition to the 10.68 tons per year from the uncontrolled material transfer, dryer combustion and roads for a total of 60.6 tons per year.

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this FESOP revision.

Process/facility	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Proposed Revision	25.0	38.4	0.063	0.578	8.83	10.5	0.198
PSD or Offset Threshold Level	250	250	250	25	250	250	-

This revision to an existing minor stationary source is not major because the emission increase is less than the PSD and Emission Offset threshold levels. Therefore, pursuant to 326 IAC 2-2 and 326 IAC 2-3, the PSD and Emission Offset requirements do not apply.

The following table shows that this revision to the existing FESOP will **not** change the status of the stationary source because the emissions from the entire source will still be limited to less than the Part 70 major source thresholds.

Process/facility	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Proposed Revision	25.0	38.4	0.063	0.578	8.83	10.5	0.198
Existing Source With Revised Limits	103	60.6	0.092	3.24	12.9	15.4	0.283
Total	128	99.0	0.155	3.82	21.7	25.9	0.481
FESOP Limits	-	<100	<100	<100	<100	<100	<10/<25

The existing source emissions are based upon the Technical Support Document for SPR 127-14989-00038 and the revisions above.

Federal Rule Applicability

- (a) The proposed cage mill system 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 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 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 10 percent opacity, except as provided in paragraphs (3), (4), and (5).

- (3) 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 Sec. 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.
 - (4) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.
 - (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 (1), (2) and (3), 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 Sec. 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).
 - (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 180 days after initial startup as required under Sec. 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.
 - (7) Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (1).
 - (8) 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:
 - (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) applicable to this proposed revision.

State Rule Applicability - Individual Facilities

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

The addition of the cage mill system to the existing minor source is a minor modification pursuant to 326 IAC 2-2. Therefore, the proposed cage mill modification is not subject to the requirements of 326 IAC 2-2.

326 IAC 2-4.1-1 (New source toxics control)

The potential single and combination HAPs emissions from the proposed cage mill system are significantly less than the major source thresholds of ten (10) and twenty-five (25) tons per year, respectively. Therefore, this proposed revision is not major for HAPs and thus this rule does not apply.

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

- (a) The particulate from the baghouse associated with the cage mill system, known as CM-BNV-001, exhausted through stack CM-BNV-001 shall not exceed 50.2 pounds per hour when operating at a process weight rate of 90.0 tons per hour.
- (b) The particulate from the 1000 ton storage silo equipped with cartridge filters, known as CM-FPT-002, exhausted through stack CM-BNV-002 shall not exceed 48.4 pounds per hour when operating at a process weight rate of 75.0 tons per hour.
- (c) The particulate from the rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, exhausted through stack RD-BNV-001, shall not exceed 50.2 pounds per hour when operating at a process weight rate of 90.0 tons per hour.
- (d) The particulate from the truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, exhausted through stack CM-BNV-003, shall not exceed 48.4 pounds per hour when operating at a process weight rate of 75.0 tons per hour.
- (e) These limitations are based upon the following:

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

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

The baghouse shall be in operation at all times the cage mill facilities are in operation, in order to comply with this limit.

State Rule Applicability - Insignificant Activity

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

The uncontrolled product transfer with particulate matter emissions are deemed an insignificant activity. This insignificant activity is exempt from the requirements of 326 IAC 6-3-2 pursuant to 326 IAC 6-3-1(b)(14) since the potential emissions from these manufacturing processes of 0.522 pounds per hour (shown on Page 1 of 4 of Appendix A) is less than 0.551 pounds per hour.

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 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 cage mill system facilities have applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the baghouse stack exhausts for the cage mill facilities (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001) shall be performed once per shift during normal daylight operations. A trained employee will 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. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (b) The Permittee shall record the total static 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 shift when the cage mill system is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 9.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.
- (c) An inspection shall be performed within the last month of each calendar quarter of all bags controlling the process. All defective bags shall be replaced.
- (d) An inspection shall be performed each calendar quarter of all cartridges filters controlling the cage mill system operation when venting to the atmosphere. A cartridge filter inspection shall be performed within three (3) months of redirecting vents to the atmosphere and every three (3) months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.
- (e) In the event that bag failure has been observed:

- (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B - Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.
 - (2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (f) In the event that a cartridge filter failure has been observed:
- Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

These monitoring conditions are necessary because the baghouses and cartridge filters for the cage mill system must operate properly to ensure compliance with 326 IAC 6-3, NSPS Subpart 000 and 326 IAC 2-8 (FESOP).

Testing Requirements

- (a) Past Stack Test Results

Since Global Stone Portage, LLC has requested a revision in the PM₁₀ FESOP emission limits for the existing facilities, IDEM, OAQ has reviewed the past stack tests to assure that these past stack test results show compliance with the proposed lower 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 proposed 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	Mill1	0.33	0.41	0.7528
01-FPT-001	800 ton storage silo	Not Tested		0.4182
01-DFL-001	Dust free loadout	Not Tested		0.2509
Mill 2	Mill 2	0.05	0.12	0.7528
02-FPT-001	800 ton storage silo bin	Not Tested		0.4182
Mill 3	Mill 3	0.10	0.14	0.7528
03-FPT-001	800 ton storage silo bin	Not Tested		0.4182
03-DFL-001	Dust free loadout	Not Tested		0.2509
Mill 5	Mill 5	2.99	3.34	2.8439
05-FPT-001	800 ton storage silo bin	Not Tested		0.7227
05-FPT-002	800 ton storage silo bin	Not Tested		0.7227
05-DFL-001	Dust free loadout	Not Tested		0.2509
GAF-FPT-001	1,000 ton storage silo bin	Not Tested		Moved to proposed cage mill system (CM-FPT-002)
GAF-SCR-001	Screening Operations (52 TPH on 12/18/02)	0.0090	0.0146	Moved to pro- posed cage mill system

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)
				(CM-SCR-001)
GAF-DFL-001	Dust free loadout	Not Tested		Moved to proposed cage mill system (CM-DFL-001)
Mill 6	Mill 6 (22 TPH on 12/17/02)	0.056386	0.161934	2.8439
Cage Mill	Cage Mill (CM-BNV-001) CM-SCR-001 (to be rated at at 90 TPH) (52 TPH on 12/18/02)	0.0090	0.0146	3.7640
Rotary Dryer	Rotary Dryer	Not Tested		3.6134
CM-FPT-002	1,000 ton storage silo	Not Tested		0.5186
CM-DFL-001	Dust free loadout	Not Tested		0.2677
Total		19.896		19.56 (equivalent to 85.68 TPY)

Although the stack test result for the Mill 5 baghouse measured an average PM₁₀ emission rate of 3.34 pounds per hour is greater than the proposed PM₁₀ limit of 2.8439 pounds per hour, the source believes that since the bag filter was just changed prior to the stack test that the proposed PM₁₀ emission rate will be met. IDEM, OAQ has therefore proposed re-testing the Mill 5 baghouse.

As noted in the previous table, many of the baghouses were not tested. Condition D.1.5 of the FESOP stated:

D.1.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

- (a) During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM or opacity testing of all facilities in Section D.1 utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (b) During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mills 1, 2, 3 and 5 (Mill 1, 01-FPT-001, 01-DFL-001, Mill 2, 02-FPT-001, Mill 3, 03-FPT-001, 03-DFL-001, Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001) 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 Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.

Therefore, since the FESOP clearly requested PM₁₀ stack tests for all facilities controlled by baghouses in Mills 1, 2, 3 and 5 (Mill 1, 01-FPT-001, 01-DFL-001, Mill 2, 02-FPT-001, Mill 3, 03-FPT-001, 03-DFL-001, Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001) and only

baghouses Mill 1, Mill 2, Mill 3 and Mill 5 were tested, IDEM, OAQ proposes that all of these baghouses be stack tested (except Mill 1, Mill 2 and Mill 3) in order to verify that the source will comply with the proposed revised PM₁₀ emission limits.

(b) Proposed Stack Tests

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

- (1) Within 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 or 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 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements. These PM or 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 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.

Proposed Changes

The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language appears in bold):

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

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

- (a) One (1) 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, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, known 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, known as 01-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 01-BNV-001, installed 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, known as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed April 1992, capacity: 12.5

tons of non-metallic minerals per hour.

- (e) One (1) outside rock hopper, known as 01-ORH-001, exhausted through Stack 01-ORH-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (f) One (1) belt conveyor, known as 01-RBF-001, exhausted through Stack 01-RBF-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (g) Two (2) mill feed tanks, known as 01-MFT-001 and 01-MFT-002, exhausted through Stacks 01-MFT-001 and 01-MFT-002, installed April 1992, storage capacity: 300 tons of non-metallic minerals each, throughput capacity: 12.5 tons of non-metallic minerals per hour each.
- (h) One (1) bucket elevator, known as 01-BEL-001, exhausted through Stack 01-BEL-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (i) One (1) belt conveyor, known as 01-RBC-001, exhausted through Stack 01-RBC-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Mill 2

- (j) One (1) enclosed mill system, known 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, known as 02-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 02-BNV-001, installed 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, known 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, known as 03-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 03-BNV-001, installed 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, known as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (o) One (1) inside rock hopper, known as 03-IRH-001, exhausted through Stack 03-IRH-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (p) One (1) belt conveyor, known as 03-RBF-001, exhausted through Stack 03-RBF-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (q) One (1) product lump breaker, known as 03-PLB-001, exhausted through Stack 03-PLB-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (r) One (1) bucket elevator, known as 03-BEL-001, exhausted through Stack 03-BEL-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

- (s) One (1) inside feed tank, known as 03-MFT-001, exhausted through Stack 03-MFT-001, installed 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, known as 03-RBC-001, exhausted through Stack 03-RBC-001, installed 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, known 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, known as 05-FPT-001 and 05-FPT-002, each equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed 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, known as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (x) One (1) outside rock hopper, known as 05-ORH-001, exhausted through Stack 05-ORH-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (y) One (1) belt conveyor, known as 05-RBF-001, exhausted through Stack 05-RBF-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (z) One (1) bucket elevator, known as 05-BEL-001, exhausted through Stack 05-BEL-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (aa) One (1) inside feed tank, known as 05-MFT-001, exhausted through Stack 05-MFT-001, installed March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 25 tons of non-metallic minerals per hour.

GAF

- ~~(bb) One (1) lime silo, identified as GAF-FPT-001, equipped with a baghouse and exhausting through stack GAF-BNV-001, capacity: 1,000 tons.~~
- ~~(cc) One (1) screening operation, identified as GAF-SCR-001, equipped with a baghouse and exhausting through stack GAF-BNV-002, capacity: 60 tons per hour.~~
- ~~(dd) One (1) truck loadout operation, identified as GAF-DFL-001, equipped with a baghouse and exhausting through stack GAF-BNV-003, capacity: 25 tons per hour.~~

Mill 6

- ~~(bbe)~~ One (1) enclosed mill system, known as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through stack 06-MDC-001, and uncontrolled truck loading

and unloading operations, capacity: 25 tons of non-metallic minerals per hour.

Cage Mill

- (cc) Two (2) belt conveyors, known as CM-RBC-002 & 003, one (1) cage mill, known as Penroc, three (3) bucket elevators, known as CM-BEL-001 - 003, one (1) dry stone storage bin, known as CM-FPT-001, one (1) screening operation, known as CM-SCR-001 and one (1) screw conveyor, known as CM-RSC-001, equipped with a baghouse, known as CM-BNV-001, for particulate matter control and exhausted through stack CM-BNV-001, capacity: 90 tons of non-metallic minerals per hour.**
 - (dd) One (1) belt conveyor, known as CM-RBC-005, one (1) bucket elevator, known as CM-BEL-004, and two (2) screw conveyors, known as CM-RSC-003 & 004, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.**
- or
- (dd) Two (2) screw conveyors, known as CM-RSC-003 & 004, one (1) storage bin, known as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.**
 - (ee) Two (2) screw conveyors, known as CM-RSC-002 & 005, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 15 tons of non-metallic minerals per hour.**
 - (ff) One (1) rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, for particulate matter control and exhausted through stack RD-BNV-001, capacity: 90 tons of non-metallic minerals per hour.**
 - (gg) One (1) 1,000 ton storage silo, known as CM-FPT-002, equipped with a cartridge filter, known as CM-BNV-002, for particulate matter control and exhausted through stack CM-BNV-002, capacity: 75 tons of non-metallic minerals per hour.**
 - (hh) One (1) truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, for particulate matter control and exhausted through stack CM-BNV-003, capacity: 75 tons of non-metallic minerals per hour.**
 - (ii) One (1) loading hopper, known as CM-ORH-001, capacity: 90 tons of non-metallic minerals per hour.**
 - (jj) One (1) inclined belt conveyor, known as CM-RBC-001, capacity: 90 tons of non-metallic minerals per hour.**

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

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.
- (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.
- (h) **Uncontrolled product transfer with particulate matter emissions less than five (5) pounds per hour or twenty-five (25) pounds per day.**

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (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, capacity: 766,500 tons of non-metallic minerals per year.

Mill 1

- (b) One (1) enclosed mill system, known 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, known as 01-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 01-BNV-001, installed 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, known as 01-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 01-BNV-002, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (e) One (1) outside rock hopper, known as 01-ORH-001, exhausted through Stack 01-ORH-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (f) One (1) belt conveyor, known as 01-RBF-001, exhausted through Stack 01-RBF-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (g) Two (2) mill feed tanks, known as 01-MFT-001 and 01-MFT-002, exhausted through Stacks 01-MFT-001 and 01-MFT-002, installed April 1992, storage capacity: 300 tons of non-metallic minerals each, throughput capacity: 12.5 tons of non-metallic minerals per hour each.
- (h) One (1) bucket elevator, known as 01-BEL-001, exhausted through Stack 01-BEL-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (i) One (1) belt conveyor, known as 01-RBC-001, exhausted through Stack 01-RBC-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

Mill 2

- (j) One (1) enclosed mill system, known 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, known as 02-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 02-BNV-001, installed 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, known 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, known as 03-FPT-001, equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stack 03-BNV-001, installed 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, known as 03-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 03-BNV-002, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (o) One (1) inside rock hopper, known as 03-IRH-001, exhausted through Stack 03-IRH-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.

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

Mill 3

- (p) One (1) belt conveyor, known as 03-RBF-001, exhausted through Stack 03-RBF-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (q) One (1) product lump breaker, known as 03-PLB-001, exhausted through Stack 03-PLB-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (r) One (1) bucket elevator, known as 03-BEL-001, exhausted through Stack 03-BEL-001, installed April 1992, capacity: 12.5 tons of non-metallic minerals per hour.
- (s) One (1) inside feed tank, known as 03-MFT-001, exhausted through Stack 03-MFT-001, installed 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, known as 03-RBC-001, exhausted through Stack 03-RBC-001, installed 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, known 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, known as 05-FPT-001 and 05-FPT-002, each equipped with a **cartridge filter baghouse** for particulate matter control, exhausted through Stacks 05-BNV-001 and 05-BNV-002, installed 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, known as 05-DFL-001, equipped with a baghouse for particulate matter control, exhausted through Stack 05-BNV-003, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (x) One (1) outside rock hopper, known as 05-ORH-001, exhausted through Stack 05-ORH-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (y) One (1) belt conveyor, known as 05-RBF-001, exhausted through Stack 05-RBF-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (z) One (1) bucket elevator, known as 05-BEL-001, exhausted through Stack 05-BEL-001, installed March 1997, capacity: 25 tons of non-metallic minerals per hour.
- (aa) One (1) inside feed tank, known as 05-MFT-001, exhausted through Stack 05-MFT-001, installed March 1997, storage capacity: 150 tons of non-metallic minerals, throughput capacity: 25 tons of non-metallic minerals per hour.

GAF

- ~~(bb) One (1) lime silo, identified as GAF-FPT-001, equipped with a baghouse and exhausting through stack GAF-BNV-001, capacity: 1,000 tons.~~
- ~~(cc) One (1) screening operation, identified as GAF-SCR-001, equipped with a baghouse and exhausting through stack GAF-BNV-002, capacity: 60 tons per hour.~~
- ~~(dd) One (1) truck loadout operation, identified as GAF-DFL-001, equipped with a baghouse and exhausting through stack GAF-BNV-003, capacity: 25 tons per hour.~~

Mill 6

- ~~(bbee)~~ One (1) enclosed mill system, known as Mill 6, equipped with a baghouse for particulate matter control, and exhausted through stack 06-MDC-001, and uncontrolled truck loading and unloading operations, capacity: 25 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

Cage Mill

- (cc) Two (2) belt conveyors, known as CM-RBC-002 & 003, one (1) cage mill, known as Penroc,

- three (3) bucket elevators, known as CM-BEL-001 - 003, one (1) dry stone storage bin, known as CM-FPT-001, one (1) screening operation, known as CM-SCR-001 and one (1) screw conveyor, known as CM-RSC-001, equipped with a baghouse, known as CM-BNV-001, for particulate matter control and exhausted through stack CM-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
- (dd) One (1) belt conveyor, known as CM-RBC-005, one (1) bucket elevator, known as CM-BEL-004, and two (2) screw conveyors, known as CM-RSC-003 & 004, equipped with a bag-house, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- or
- (dd) Two (2) screw conveyors, known as CM-RSC-003 & 004, one (1) storage bin, known as CM-FPT-003 and one (1) pneumatic conveying system, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.
- (ee) Two (2) screw conveyors, known as CM-RSC-002 & 005, equipped with a baghouse, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 15 tons of non-metallic minerals per hour.
- (ff) One (1) rotary dryer, known as rotary dryer, equipped with a baghouse, known as RD-BNV-001, for particulate matter control and exhausted through stack RD-BNV-001, capacity: 90 tons of non-metallic minerals per hour.
- (gg) One (1) 1,000 ton storage silo, known as CM-FPT-002, equipped with a cartridge filter, known as CM-BNV-002, for particulate matter control and exhausted through stack CM-BNV-002, capacity: 75 tons of non-metallic minerals per hour.
- (hh) One (1) truck loadout system, known as CM-DFL-001, equipped with a baghouse, known as CM-BNV-003, for particulate matter control and exhausted through stack CM-BNV-003, capacity: 75 tons of non-metallic minerals per hour.
- (ii) One (1) loading hopper, known as CM-ORH-001, capacity: 90 tons of non-metallic minerals per hour.
- (jj) One (1) inclined belt conveyor, known 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 NSPS Subpart OOO and 326 IAC 12

This source, consisting of Mills 1, 2, 3, 5 and 6, and the GAF 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 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 10 percent opacity, except as provided in paragraphs (c), (d), and (e).

- (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 Sec. 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 section.
- (e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c), 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 Sec. 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 Sec. 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).
- (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.1.2 Particulate Matter (PM) [326 IAC 6-3-2(c)]

- (a) Pursuant to CP 127-5063-00038, issued on February 28, 1997, the allowable particulate matter from the Mill 5 baghouse operations (Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001) shall not exceed 35.4 pounds per hour each when operating at a process weight rate of 25.0 tons per hour each.
- (b) The allowable particulate matter (PM) emission rate from the Mill 1, 2, and 3 baghouse operations for Mill 1 (Mill 1, 01-FPT-001 and 01-DFL-001), for Mill 2 (Mill 2 and 02-FPT-001) and for Mill 3 (Mill 3, 03-FPT-001 and 03-DFL-001) shall not exceed 22.3 pounds per hour each when operating at a process weight rate of 12.5 tons per hour each.
- ~~(c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the lime silo (GAF-FPT-001) and screening operations (GAF-SCR-001) shall not exceed 46.3 pounds per hour, each, when operating at process weight rates of 60 tons per hour, each.~~
- ~~(d) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the truck loadout (GAF-DFL-001) and the PM from Mill 6, including the truck loading and unloading, shall not exceed 35.4 pounds per hour, each, when operating at process weight rates of 25 tons per hour, each.~~
- (c) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the baghouse, known as CM-BNV-001, associated with the cage mill system and the rotary dryer baghouse, known as RD-BNV-001, shall not exceed 50.25 pounds per hour, each when operating at process weight rates of 90.0 tons per hour, each.**
- (d) Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from storage silo exhaust stack CM-BNV-002 and the truck loadout baghouse, known as CM-BNV-003, shall not exceed 48.4 pounds per hour, each when operating at process weight rates of 75.0 tons per hour, each.**

The allowable PM emission rates are calculated with the following equations:

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

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

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

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

D.1.3 PM₁₀ [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the combined PM₁₀ emissions from the facilities in Section D.1 shall not exceed a total of **85.7** ~~94.2~~ tons per year.
- (b) Pursuant to 326 IAC 2-8-4, the individual emissions units equipped with baghouses **or cartridge filters** at Mills 1, 2, 3, 5 and 6, and the **GAF cage mill** operations shall not exceed the following hourly PM₁₀ emission limits:

Facility	Hourly PM ₁₀ Emission Limit (lbs/hr)
Mill 1	1.16 0.7528
01-FPT-001	0.648 0.4182
01-DFL-001	0.388 0.2509
Mill 2	1.16 0.7528
02-FPT-001	0.648 0.4182
Mill 3	1.16 0.7528
03-FPT-001	0.648 0.4182
03-DFL-001	0.388 0.2509
Mill 5	4.39 2.8439
05-FPT-001	1.12 0.7227
05-FPT-002	1.12 0.7227
05-DFL-001	0.388 0.2509
GAF-FPT-001	0.767
GAF-SCR-001	1.15
GAF-DFL-001	0.411
Mill 6	4.35 2.8439
Cage Mill	3.7640
Rotary Dryer	3.6134
CM-FPT-002	0.5186
CM-DFL-001	0.2677

- (c) Compliance with these PM₁₀ emission limits will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.4 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) The GAF facilities: GAF-FPT-001, GAF-SCR-001 and GAF-DFL-001~~
- (ef) 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.1.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

- (a) During the period between 30 and 36 months after issuance of this **FESOP** permit, the Permittee shall perform PM or opacity testing of all facilities in Section D.1 utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (b) During the period between 30 and 36 months after issuance of this **FESOP** permit, the Permittee shall perform PM₁₀ testing on all facilities controlled by baghouses in Mills 1, 2, 3 and 5 (Mill 1, 01-FPT-001, 01-DFL-001, Mill 2, 02-FPT-001, Mill 3, 03-FPT-001, 03-DFL-001, Mill 5, 05-FPT-001, 05-FPT-002 and 05-DFL-001) 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 Mill 1, Mill 2, Mill 3 and Mill 5 as well as any additional facilities that did not show compliance during the test performed during the period between 30 and 36 months after issuance of this permit. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- ~~(c) Within 60 days after achieving the maximum production rate at which the GAF facilities will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM or opacity testing of the lime silo (GAF-FPT-001), screening operation (GAF-SCR-001) and truck loadout (GAF-DFL-001) utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for lime silo (GAF-FPT-001), screening operation (GAF-SCR-001) and truck loadout (GAF-DFL-001). In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.~~
- ~~(d) Within 60 days after achieving the maximum production rate at which the GAF facilities will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM₁₀ testing the lime silo (GAF-FPT-001), screening operation (GAF-SCR-001) and truck loadout (GAF-DFL-001) 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 lime silo (GAF-FPT-001), screening operation (GAF-SCR-001) and truck loadout (GAF-DFL-001). PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require~~

~~compliance testing when necessary to determine if these facilities are in compliance.~~

- (ec) Within 60 days after achieving the maximum production rate at which Mill 6 will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM or opacity testing of Mill 6 utilizing Methods 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or opacity performance tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration for Mill 6. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (fd) Within 60 days after achieving the maximum production rate at which Mill 6 will be operated, but not later than 180 days after initial startup, the Permittee shall perform PM₁₀ testing Mill 6 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 Mill 6. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.
- (e) **Within 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 or 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 5 or 17 (40 CFR 60, Appendix A), or other methods as approved by the Commissioner to demonstrate compliance with the NSPS Subpart OOO requirements of Condition D.1.1. These PM or 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). In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.**
- (f) **Within 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) as well as the Mill 5 (Mill 5) baghouse 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), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) as well as the Mill 5 (Mill 5) baghouse. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.**

The testing requirements presented in this condition for Mill 5 supercede the testing conditions for Mill 5 in Condition D.1.5(b) of this permit.

D.1.6 Particulate Matter (PM and PM₁₀)

- (a) Pursuant to CP 127-5063-00038, issued on February 28, 1997 and CP 127-1915-00038, issued on April 15, 1991, the baghouses for PM control shall be in operation at all times when the Mills 1, 2, 3, and 5 are in operation.
- (b) The cartridge filters for PM control shall be in operation at all times when the Mills 1, 2, 3, and 5 are in operation.**
- ~~(b) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the one (1) lime silo (GAF-FPT-001) at all times when the silo is in operation.~~
- ~~(c) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the one (1) screening operation (GAF-SCR-001) at all times when the screening is in operation.~~
- ~~(d) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the one (1) truck loadout operation (GAF-DFL-001) at all times when the truck loadout is in operation.~~
- (ec) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from Mill 6 at all times when Mill 6 is in operation.
- (d) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.**
- (e) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.**
- (f) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, the cartridge filter for PM and PM₁₀ control shall be in operation and control emissions from the storage silo (CM-BNV-002) at all times when the silo is in operation.**
- (g) In order to demonstrate compliance with Conditions D.1.1, D.1.2 and D.1.3, 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.**

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the baghouse 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 and, for the GAF facilities (GAF-BNV-001, GAF-BNV-002 and GAF-BNV-003), **and for the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001)** shall be performed once per shift 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

- (c) 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.1.8 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the baghouses **and cartridge filters** used in conjunction with Mill 1, 2, 3 and 5 operations, at least once per shift 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-Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge 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 total static pressure drop across the baghouses used in conjunction with the GAF facilities (GAF-FPT-001, GAF-SCR-001 and GAF-DFL-001), at least once per shift while the facilities are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouses is outside the normal range of 2.0 and 9.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.~~

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

- ~~(be)~~ The Permittee shall record the total static pressure drop across the baghouse used in conjunction with Mill 6, at least once per shift while the facility 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- Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge 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 total static pressure drop across the baghouses and cartridges filter 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 shift while the facility 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 - Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.**

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

D.1.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags **and cartridge filters** controlling the Mill 1, 2, 3, 5, and 6, and the GAF facilities (GAF-FPT-001, GAF-SCR-001 and GAF-DFL-001), **and the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001)** operations when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. 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 single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (f) In the event that a cartridge filter failure has been observed:

D.1.11 Cartridge Filter Failure Detection

In the event that cartridge filter failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.1.124 Record Keeping Requirements

- (a) To document compliance with Condition D.1.7, 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, and for the GAF facilities (~~GAF-FPT-001, GAF-SCR-001 and GAF-DFL-001~~), **and the cage mill system (CM-BNV-001, CM-BNV-002, CM-BNV-003 and RD-BNV-001)** once per shift.
- (b) To document compliance with Condition D.1.8, the Permittee shall maintain the following:
 - (1) Records of the following operational parameters once per shift during normal operation when venting to the atmosphere:
Inlet and outlet differential static pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9 and the dates the vents are re-directed.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

Conclusion

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 127-18866-00038.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name:	Global Stone Portage, LLC
Source Location:	165 Steel Drive, Portage, Indiana 46368
County:	Porter
SIC Code:	1422
Operation Permit No.:	F 127-11241-00038
Significant Permit Revision No.:	SPR 127-18866-00038
Permit Reviewer:	Mark L. Kramer

On July 12, 2004, the Office of Air Quality (OAQ) had a notice published in the Chesterton Tribune, Chesterton, Indiana, stating that Global Stone Portage, LLC had applied for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP) to operate a new cage mill system controlled by baghouses and revise the PM₁₀ emission limits for the existing permitted facilities. The notice also stated that OAQ proposed to issue a Significant Permit Revision to a FESOP for this operation and provided information on how the public could review the proposed Significant Permit Revision to a FESOP 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 Significant Permit Revision to a FESOP should be issued as proposed.

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

Change 1:

The Table of Contents has been corrected for the new page numbers and Section D.1 has had the GAF replaced by the Cage Mill as follows:

SECTION D.1 FACILITY OPERATION CONDITIONS - Mills 1, 2, 3, 5, ~~and 6~~, **and Cage Mill**
~~GAF F~~facilities

Change 2:

In Condition A.2(b), the word "as" has been added. The word "in" has been added after the word "installed" to Conditions A.2(c - i, k, m - t, and v - aa). Only Conditions A.2(b) and A.2(c) have been shown here as all other changes are the same as in Condition A.2(c). Similarly, these changes were implemented in Section D.1.

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

Mill 1

- (b) One (1) enclosed mill system, known **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, known 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.

Change 3:

Mill 6 was permitted by the first significant permit revision SPR 127-14989, issued on February 4, 2002. The year Mill 6 was installed (2002) has been added to Condition A.2(bb) as follows: The change was also added to Section D.1.

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

Mill 6

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

Change 4:

Condition A.2(dd) has had the hyphen removed from the word "baghouse" which was caused by the conversion from Word in the Technical Support Document to Word Perfect for the Public Notice version of the changed pages of the permit as follows: The change was also made to Section D.1.

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

Cage Mill

- (dd) One (1) belt conveyor, known as CM-RBC-005, one (1) bucket elevator, known as CM-BEL-004, and two (2) screw conveyors, known as CM-RSC-003 & 004, equipped with a **baghouse** ~~bag-house~~, known as CM-BNV-001, for particulate matter control, and exhausted through stack CM-BNV-001, capacity: 75 tons of non-metallic minerals per hour.

Change 5:

Condition D.1.5(f) has had the word "of" inserted between the words "testing" and "the" as follows:

D.1.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

- (f) Within 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 **of** the cage mill (CM-BNV-001), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) as well as the Mill 5 (Mill 5) baghouse 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), rotary dryer (RD-BNV-001), storage silo (CM-BNV-002), and truck loadout (CM-BNV-003) as well as the Mill 5 (Mill 5) baghouse. PM₁₀ includes filterable and condensable PM₁₀. In addition to these requirements, IDEM may require compliance testing when necessary to determine if these facilities are in compliance.

Change 6:

In Condition D.1.8(c) the grammar has been corrected as follows:

D.1.8 Parametric Monitoring

- (c) The Permittee shall record the total static 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 shift while the facility 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- Compliance Response Plan - Failure to take Response Steps. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to take Response Steps, shall be considered a violation of this permit.

Change 7:

The title for Condition D.1.9 has been changed to reflect that both baghouses and cartridge filters need to be inspected as follows. It has also been changed in the Table of Contents.

D.1.9 Baghouse and Cartridge Filter Inspections

Change 8:

On April 15, 2004, the United States Environmental Protection Agency (U.S. EPA) named 23 Indiana counties and one partial county nonattainment for the new 8-hour ozone standard. The designations became effective on June 15, 2004. Porter County has been designated as nonattainment for the 8-hour ozone standard. The following has been added to Condition A.1 General Information:

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

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

Authorized Individual:	General Manager
Source Address:	165 Steel Drive, Portage, Indiana 46368
Mailing Address:	165 Steel Drive, Portage, Indiana 46368
Phone Number:	219-787-9190
SIC Code:	1422
County Location:	Porter
County Status:	Nonattainment for ozone under the 1 and 8-hour standards Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules; and nonattainment NSR Minor Source, Section 112 of the Clean Air Act

Although the TSD itself will not be revised as it is a historical document and the TSD was correct at the time of public notice, the following is being provided to show how the county attainment status has been affected as a result of the 8-hour ozone standard designations. The county attainment status regarding other pollutants remain unchanged; therefore will not be shown below other than in the table.

County Attainment Status

The source is located in Porter County.

Pollutant	Status
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
1-Hour Ozone	severe nonattainment
8-Hour Ozone	moderate nonattainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) ~~are precursors for the formation of ozone and nitrogen oxides (NO_x)~~ are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
- (1) **On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO_x threshold for nonattainment new source review.** Therefore, VOC emissions **alone** are considered when evaluating the rule applicability relating to **the 1-hour** ozone standards. Porter County has been designated as nonattainment **in Indiana for the 1-hour** ozone **standard**. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
- (2) **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 for nonattainment new source review.**

Appendix A: Emission Calculations
Baghouse Operations

Company Name: Global Stone Portage, LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Significant Permit Revision: 127-18866
Plt ID: 127-00038
Reviewer: Mark L. Kramer
Application Date: April 19, 2004

Unit ID	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)
Cage Mill Dust Collector	99.0%	0.0100	22500	70	22500	192.86	844.7	1.9286	8.45
1000 ton Storage Silo Cartridge Filter	99.0%	0.0100	600	70	600	5.14	22.5	0.0514	0.225
Alternative 1000 ton Storage Silo Cartridge Filter	99.0%	0.0100	3100	70	3100	26.57	116.4	0.2657	1.164
Truck Load Out Dust Collector	99.0%	0.0100	1600	70	1600	13.71	60.1	0.1371	0.601
Rotary Dryer Dust Collector	99.0%	0.0120	21600	240	16354	168.22	736.8	1.6822	7.368
Worst Case						Total	1758		17.6

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) / (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 Rate of Emissions

	Process Rate (lbs/hr)	Process Weight Rate (tons/hr)	Allowable Emissions (lbs/hr)
Cage Mill Dust Collector	180000	90.00	50.2
1000 ton Storage Silo Cartridge Filter	180000	75.00	48.4
Truck Load Out Dust Collector	180000	90.00	50.2
Rotary Dryer Dust Collector	180000	90.00	50.2

Methodology

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	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)
Loading Hopper	Loading	90	0.00000336	0.0000016	0.0003024	0.001	0.000144	0.0006
Transfer from Feeder to Incline Belt	Conveying	90	0.00290000	0.0011000	0.261	1.143	0.099	0.4336
Transfer from Belt to Rotary Dryer	Conveying	90	0.00290000	0.0011000	0.261	1.143	0.099	0.4336
						2.288		0.8679

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Small Industrial Boiler**

Company Name: Global Stone Portage, LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
Significant Permit Revision: 127-18866
Pit ID: 127-00038
Reviewer: Mark L. Kramer
Application Date: April 19, 2004

Rotary Dryer

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

24.00

210

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.200	0.799	0.063	10.5	0.578	8.83

*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

See page 3 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
 Natural Gas Combustion Only
 MM BTU/HR <100
 Small Industrial Boiler
 HAPs Emissions**

Company Name: Global Stone Portage, LLC
Address City IN Zip: 165 Steel Drive, Portage, Indiana 46368
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HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.10E-03	Dichlorobenzene 1.20E-03	Formaldehyde 7.50E-02	Hexane 1.80E+00	Toluene 3.40E-03
Potential Emission in tons/yr	2.21E-04	1.26E-04	7.88E-03	1.89E-01	3.57E-04

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 5.00E-04	Cadmium 1.10E-03	Chromium 1.40E-03	Manganese 3.80E-04	Nickel 2.10E-03	Total
Potential Emission in tons/yr	5.26E-05	1.16E-04	1.47E-04	3.99E-05	2.21E-04	0.198

Methodology is the same as page 2.

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

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** Paved Haul Roads **

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).

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

2.777778 trip/hr x
 0.085 mile/trip x
 2 (round trip) x
 8760 hr/yr = 4136.666667 miles per year

Throughput 75 tons/hr
 Annual Throughput 657000 tons
 27 tons/trip 24333.33 trips

$$E = k \left[\frac{sL}{2} \right]^{0.65} \left[\frac{W}{3} \right]^{1.5-C} (1-P/4N)$$

E = 2.39 0.47 lb/mile
 PM PM-10

where k = 0.082 0.016 (particle size multiplier from AP-42 Table 13.2-1.1)
 sL = 2.4 2.4 road surface silt loading (g/m²)
 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

$$E = \frac{2.39 \text{ lb/mi} \times 4136.666667 \text{ mi/yr}}{2000 \text{ lb/ton}} = 4.95 \text{ tons/yr of PM}$$

$$E = \frac{0.47 \text{ lb/mi} \times 4136.67 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.966 \text{ tons/yr of PM-10}$$

Summary of Emissions (tons/yr)

Before Controls

Process	PM	PM-10	SO2	NOx	VOC	CO	HAPs
Cage Mill	844.7	844.7	0	0	0	0	0
1000 ton Storage Silo	116.4	116.4	0	0	0	0	0
Truck Load Out	60.1	60.1	0	0	0	0	0
Rotary Dryer Process	736.8	736.8	0	0	0	0	0
Rotary Dryer Combustion	0.200	0.799	0.063	10.5	0.578	8.83	0.198
Loading Hopper	0.001	0.001	0	0	0	0	0
Transfer from Feeder to Incline Belt	1.14	0.434	0	0	0	0	0
Transfer from Belt to Rotary Dryer	1.14	0.434	0	0	0	0	0
Paved Roads	4.95	0.966	0	0	0	0	0
Total	1765.4	1760.6	0.063	10.5	0.578	8.83	0.198

After Controls

Process	PM	PM-10	SO2	NOx	VOC	CO	HAPs
Cage Mill	8.45	8.45	0	0	0	0	0
1000 ton Storage Silo	1.16	1.16	0	0	0	0	0
Truck Load Out	0.601	0.601	0	0	0	0	0
Rotary Dryer Process	7.370	7.370	0	0	0	0	0
Rotary Dryer Combustion	0.200	0.799	0.063	10.5	0.578	8.83	0.198
Loading Hopper	0.001	0.001	0	0	0	0	0
Transfer from Feeder to Incline Belt	1.14	0.434	0	0	0	0	0
Transfer from Belt to Rotary Dryer	1.14	0.434	0	0	0	0	0
Paved Roads	4.95	0.966	0	0	0	0	0
Total	25.0	20.2	0.063	10.5	0.578	8.83	0.198