INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: December 15, 2011

RE: Unimin Corporation – Huntingburg Facility / 037-30155-00062

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07

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Minor Source Operating Permit Renewal
OFFICE OF AIR QUALITY

Unimin Corporation - Huntingburg Facility
1405 Industrial Park Dr
Huntingburg, Indiana 47542

(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 to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

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 MSOP under 326 IAC 2-6.1.

Operation Permit No.: M037-30155-00062	
Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: December 15, 2011 Expiration Date: December 15, 2021

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

The Permittee owns and operates a stationary mineral (fireclay) processing facility.

Source Address:	1405 Industrial Park Dr., Huntingburg, Indiana 47542
General Source Phone Number:	(812) 683-2179
SIC Code:	1459 (Clay, Ceramic, and Refractory Minerals, Not Elsewhere Calssified)
County Location:	Dubois
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

(a) One (1) Mixer, identified as MX-205, constructed in 1997, with a maximum throughput of 40,000 pounds per hour, with emissions controlled by baghouse DC-227 (not integral), and exhausting to stack 227.

(b) One (1) Roller Mill/Whizzer Separator, identified as RL-110/111, constructed in 1981, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to Stack 117.

(c) One (1) Roller Mill/Whizzer Separator, identified as RL-210/211, constructed in 1982, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack 217.

(d) One (1) Silo, identified a SI-610, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-612, and exhausting to stack 612.

(e) One (1) Silo, identified as SI-620, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-622, and exhausting to stack 622.

(f) One (1) Silo, identified as SI-630, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-632, and exhausting to stack 632.

(g) One (1) North Storage Bin, identified as BN-710, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(h) One (1) Middle Storage Bin, identified as BN-720, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(i) One (1) North Bin Loadout Spout, identified as LS-712, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(j) One (1) Middle Bin Loadout Spout, identified as LS-722, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(k) One (1) Mill #1 Heater, identified as HE-116, constructed in 1981, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to stack DC-117.

(l) One (1) Mill #2 Heater, identified as HE-216, constructed in 1982, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack DC-217.

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) Bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-912, and exhausting to stack 912.

(r) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(s) One (1) Belt Conveyor, identified as BC-102, constructed in1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(t) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, and a source of fugitive emissions.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (u) are considered affected facilities.

(v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (v) are considered affected facilities.

(w) One (1) Hopper, identified as HO-200, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(x) One (1) Hopper, identified as HO-400, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(y) One (1) Hopper, identified as HO-500, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(z) One (1) Bin, identified as BN-108, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emission controlled by baghouse DC-130, and exhausting to stack 130.

(aa) Activities with particulate matter emissions equal to or less than 5 tons per year: Fugitive emission sources constructed before August 1983: Belt conveyors BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, and BC-011; Bin BN-208; Portable Clay Shredder (including Shredder SH-001, Feeder FE-001 and Belt Conveyors BC-001, BC-002), and Hopper HO-100.

(bb) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, Parts washer using mineral spirits which commenced operations in 1981.

(cc) Combustion source flame safety purging on startup.

(dd) 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, identified as TA-090.

(ee) Cleaners and solvents characterized as follows where the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months. Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F): Use of cans of citrus and penetrating oil.

(ff) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment cutting torches, soldering equipment, welding equipment.

(gg) Replacement and repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment: Baghouse bags and air filters.

(hh) Paved and Unpaved roads and parking lots with public access.

(ii) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment: Secondary containment for 500 gallon portable diesel storage tanks.

(jj) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with design grain loading or less than or equal to three one-hundredths grains per actual cubic foot (0.03 gr/acf) and a gas flow rate less than or equal to four thousand actual cubic feet per minute (4,000 acf/min), including pneumatic conveying.

(kk) Purge double block and bleed valves.

(ll) Filter or coalescer media changeout

(mm) Air compressors and pneumatically operated equipment, including hand tools;

(nn) Compressor or pump lubrication and seal oil systems;

(oo) Miscellaneous equipment, but no emissions associated with the process for which the equipment is used, and activities including the following:

(pp) Electric or steam heated drying ovens and autoclaves, including only the heating emissions and not any associated process emissions.

(qq) Equipment used for quality control/assurance or inspection purpose, including sampling equipment used to withdraw material for analysis;

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M037-30155-00062, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification 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.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

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

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

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

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

The Permittee shall implement the PMPs.

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

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

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

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

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

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

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M037-30155-00062 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source’s existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

(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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three

(3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

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

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

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

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall record the reasonable response steps taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

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

(b) 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.

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) One (1) Mixer, identified as MX-205, constructed in 1997, with a maximum throughput of 40,000 pounds per hour, with emissions controlled by baghouse DC-227 (not integral), and exhausting to stack 227.

(b) One (1) Roller Mill/Whizzer Separator, identified as RL-110/111, constructed in 1981, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to Stack 117.

(c) One (1) Roller Mill/Whizzer Separator, identified as RL-210/211, constructed in 1982, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack 217.

(d) One (1) Silo, identified a SI-610, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-612, and exhausting to stack 612.

(e) One (1) Silo, identified as SI-620, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-622, and exhausting to stack 622.

(f) One (1) Silo, identified as SI-630, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-632, and exhausting to stack 632.

(g) One (1) North Storage Bin, identified as BN-710, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(h) One (1) Middle Storage Bin, identified as BN-720, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(i) One (1) North Bin Loadout Spout, identified as LS-712, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(j) One (1) Middle Bin Loadout Spout, identified as LS-722, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(k) One (1) Mill #1 Heater, identified as HE-116, constructed in 1981, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to stack DC-117.

(l) One (1) Mill #2 Heater, identified as HE-216, constructed in 1982, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack DC-217.

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral

baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) Bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-912, and exhausting to stack 912.

(r) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(s) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(t) One (1) Belt Conveyor, identified as BC-102, constructed in1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, and a source of fugitive emissions.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (u) are considered affected facilities.

(v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(w) One (1) Hopper, identified as HO-200, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(x) One (1) Hopper, identified as HO-400, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(y) One (1) Hopper, identified as HO-500, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(z) One (1) Bin, identified as BN-108, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emission controlled by baghouse DC-130, and exhausting to stack 130.

(aa) Activities with particulate matter emissions equal to or less than 5 tons per year: Fugitive emission sources constructed before August 1983: Belt conveyors BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, and BC-011; Bin BN-208; Portable Clay Shredder (including Shredder SH-001, Feeder FE-001 and Belt Conveyors BC-001, BC-002), and Hopper HO-100.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

(a) In order to render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall comply with the following limitations:

PM

(1) The PM emissions from baghouse DC-227 shall not exceed 0.26 pounds per hour.

(2) The PM emissions from baghouse DC-612, shall not exceed 0.26 pounds per hour.

(3) The PM emissions from baghouse DC-622 shall not exceed 0.26 pounds per hour.

(4) The PM emissions from baghouse DC-632 shall not exceed 0.26 pounds per hour.

(5) The PM emissions from baghouse DC-714 shall not exceed 0.26 pounds per hour.

(6) The PM emissions from baghouse DC-724, shall not exceed 0.26 pounds per hour

(7) The PM emissions from baghouse DC-734 shall not exceed 0.26 pounds per hour.

(8) The PM emissions from baghouse DC-754, shall not exceed 0.26 pounds per hour.

(9) The PM emissions from baghouse DC-217 shall not exceed 2.57 pounds per hour.

(10) The PM emissions from baghouse DC-912 shall not exceed 1.03 pounds per hour.

(11) The PM emissions from baghouse DC-807 shall not exceed 1.03 pounds per hour.

(12) The PM emissions from baghouse DC-117 shall not exceed 2.57 pounds per hour.

(13) The PM emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

PM10

(14) The PM10 emissions from baghouse DC-227 shall not exceed 0.26 pounds per hour.

(15) The PM10 emissions from baghouse DC-612 shall not exceed 0.26 pounds per hour.

(16) The PM10 emissions from baghouse DC-622 shall not exceed 0.26 pounds per hour.

(17) The PM10 emissions from baghouse DC-632 shall not exceed 0.26 pounds per hour.

(18) The PM10 emissions from baghouse DC-714 shall not exceed 0.26 pounds per hour.

(19) The PM10 emissions from baghouse DC-724 shall not exceed 0.26 pounds per hour.

(20) The PM10 emissions from baghouse DC-734 shall not exceed 0.26 pounds per hour.

(21) The PM10 emissions from baghouse DC-754, shall not exceed 0.26 pounds per hour.

(22) The PM10 emissions from baghouse DC-117 shall not exceed 2.57 pounds per hour.

(23) The PM10 emissions from baghouse DC-217 shall not exceed 2.57 pounds per hour.

(24) The PM10 emissions from baghouse DC-912 shall not exceed 1.03 pounds per hour.

(25) The PM10 emissions from baghouse DC-807 shall not exceed 1.03 pounds per hour.

(26) The PM10 emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

PM2.5

(27) The PM2.5 emissions from baghouse DC-227 shall not exceed 0.26 pounds per hour.

(28) The PM2.5 emissions from baghouse DC-612 shall not exceed 0.26 pounds per hour.

(29) The PM2.5 emissions from baghouse DC-622 shall not exceed 0.26 pounds per hour.

(30) The PM2.5 emissions from baghouse DC-632 shall not exceed 0.26 pounds per hour.

(31) The PM2.5 emissions from baghouse DC-714 shall not exceed 0.26 pounds per hour.

(32) The PM2.5 emissions from baghouse DC-724 shall not exceed 0.26 pounds per hour.

(33) The PM2.5 emissions from baghouse DC-734 shall not exceed 0.26 pounds per hour.

(34) The PM2.5 emissions from baghouse DC-754, shall not exceed 0.26 pounds per hour.

(35) The PM2.5 emissions from baghouse DC-117 shall not exceed 2.57 pounds per hour.

(36) The PM2.5 emissions from baghouse DC-217 shall not exceed 2.57 pounds per hour.

(37) The PM2.5 emissions from baghouse DC-807 shall not exceed 1.03 pounds per hour.

(38) The PM2.5 emissions from baghouse DC-912 shall not exceed 1.03 pounds per hour.

(39) The PM2.5 emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

Compliance with these limits, in conjunction with the potential to emit from other units at the source, limits the source wide PM, PM10 and PM2.5 emissions to less than 250 tons per year and shall render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.2 Particulate [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2 (Particulate Emission Limitations) the particulate emissions from facilities identified as MX-205, RL-110/111, RL-210/211, SI-610, SI-620, SI-630, BN-710, BN-720, BN-730, LS-712, LS-722, LS-732, LS-752, BN-910, BA-914/SC-911, BN-810, BA-811, HE-116 and HE-216 shall not exceed 0.03 grains per dry standard cubic foot.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.1.4 Patriculate Control

(a) In order to demonstrate compliance with Condition D.1.1 the baghouses, including those integral to the process, for particulate control shall be in operation and control emissions from facilities MX-205, RL-110/111, RL-210/211, SI-610, SI-620, SI-630, BN-710, BN-720, BN-730, BN-810, LS-712, LS-722, LS-732, LS-752, BN-910, BA-914/SC-911 and BA-811, at all times these facilities are in operation.

(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also

include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.5 Visible Emission Notations

(a) Visible emission notations from the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC-117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN-720, LS-722 (DC-724), BN-730, LS-732 (DC-734), BN-108 (DC-130), BN-730, LS-732 (DC-724), LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-914 (DC-912) and BN-810, BA-811 (DC-807) stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.6 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC-117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN-720, LS-722 (DC-724), BN-730, LS-732 (DC-734), , LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-914 (DC-912) and BN-810, BA-811 (DC-807) at least once per day when these processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 1.0 and 6.0 of water or a range established during the latest stack test, the Permittee shall take reasonable steps. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.7 Broken or Failed Bag Detection

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

emergency provisions of this permit (Section C - Response to Excursions or Exceedances).

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

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.8 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC-117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN-720, LS-722 (DC-724), BN-730, LS-732 (DC-734), BN-108 (DC-130), LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-914 (DC-912) and BN-810, BA-811 (DC-807) stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of the visible emission notation (e.g., the process did not operate that day).

(b) To document the compliance status with Condition D.1.6, the Permittee shall maintain records of the pressure drop across the baghouses used in conjunction with the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC-117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN-720, LS-722 (DC-724),BN-730, LS-732 (DC724), BN-108 (DC-130), LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-814 (DC-912) and BN-810, BA-811 (DC-807) during normal operation when venting to the atmosphere. The Permittee shall include in each daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(bb) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, Parts washer using mineral spirits which commenced operations in 1981.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

(1) Equip the cleaner with a cover;

(2) Equip the cleaner with a facility for draining cleaned parts;

(3) Close the degreaser cover whenever parts are not being handled in the cleaner;

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label summarizing the operation requirements;

(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-912, and exhausting to stack 912.

(r) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(s) One (1) Belt Conveyor, identified as BC-102, constructed in1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(t) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, and a source of fugitive emissions.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (u) are considered affected facilities

(v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

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

New Source Performance Standards

E.1.1 General Provision Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

Pursuant ot 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1 for the

South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3 Spout Packer unit (BA-811), except at otherwise specified in 40 CFR Part 60, Subpart OOO

E.1.2 Standard of Performance for Nonmetallic Mineral Processing Plants Requirements
[326 IAC 12-1][40 CFR 60, Subpart OOO]

The Permittee, which owns and operates South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3 Spout Packer unit (BA-811), shall comply with the following provisions of 40 CFR 60, Subpart OOO (included as attachment B) of this permit.

(1) 40 CFR 60.670(a), (d), (e), (f)
(2) 40 CFR 60.671
(3) 40 CFR 60.672(a), (b), (d), (e), (f)
(4) 40 CFR 60.673
(5) 40 CFR 60.675(a), (b), (c)(1)(i), (ii). (c)(2), (3), (d)
(6) 40 CFR 60.676(a), (f), (h), (i), (j)
(7) Table 1

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

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Unimin Corp
Address:	1405 Industrial Park Dr.
City:	Huntingburg, Indiana 47542
Phone #:	(812) 683-2179
MSOP #:	M037-30155-00062

I hereby certify that Unimin Corp is :

□ still in operation.
□ no longer in operation.

I hereby certify that Unimin Corp is :

□ in compliance with the requirements of MSOP M037-30155-00062.
□ not in compliance with the requirements of MSOP M037-30155-00062.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY:_____PHONE NO. ( )_____
LOCATION: (CITY AND COUNTY)_____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP:_____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON:_____
_____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER:_____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____
_____

MEASURES TAKEN TO MINIMIZE EMISSIONS:_____
_____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES:_____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS:_____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT:_____
INTERIM CONTROL MEASURES: (IF APPLICABLE)_____
_____
_____

MALFUNCTION REPORTED BY:_____TITLE:_____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY:_____DATE:_____TIME:_____
*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____
_____

ATTACHMENT A
UNIMIN CORPORATION – HUNTINGBURG FACILITY

FUGITIVE PARTICULATE MATTER EMISSIONS CONTROL PLAN

Per 326 IAC 6-5-1(b), the Huntingburg facility is required to prepare a control plan for fugitive particulate matter emissions. The contents of the Control Plan is set down in writing as per 326 IAC 6-5-5(a) and contains the information identified in 326 IAC 6-5-5 (1) through (12).

(1) Source: Unimin Corporation - Huntingburg Facility
P.O. Box 194, 1405 Industrial Park Drive
Huntingburg, IN 47542

(2) Owner/Operator Responsible for the Execution of the Control Plan: Same as above
Contact: Plant Manager
Tel: 812-683-2179
Fax: 812-683-2195

(3) Identification of Potential Emission Sources
Fugitive particulate matter emissions are generated from multiple sources at the Huntingburg plant site. Per 326 IAC 6-5-4, the emission sources are identified as the following emission points:

(a) Paved roads, unpaved roads, and parking lots;
(b) Open aggregate piles;
(c) Outdoor conveying of aggregate material;
(d) Transfer of aggregate material;
(e) Transportation of aggregate material by truck, front end loader, or similar vehicles;
(f) Loading and unloading operations of material from storage facilities such as bins, hoppers, and silos, onto or out of vehicles;
(g) Solid waste handling;
(h) Material handling operations such as crushing, grinding, screening, and mixing;
(i) Escape through building openings such as doors, windows, powered or unpowered ventilators, and roof monitors other than a stack.

(4) Site map
A site map is available at the site.

(5) Vehicular Activity

Vehicles	Trips/hour	Speed (mph)	Distance (Miles per trip)	Gross/Tare Weights (tons)
Tractor Trailer	<1	10	0.03	40/18
Tandem Truck	<1	10	0.01	35/15
Plant vehicle	<1	10	0.04	0.5/0.5

(6) Type and Quantity of material handled
Stockpiles consist predominantly of clay mineral products. All material is inert. The material is blended to create bulk and/or bagged products, which depend upon customer specifications. The quantity of material handled is held confidential.

(7) Equipment used to maintain aggregate piles
Outdoor stockpiles are produced by truck dumping; and removed by front-end loader. Clay trucks are tarped. A clay shredder discharges clay directly into covered storage bays. A tile crusher discharges broken bathroom tile directly into a covered storage bay. Other raw materials are put in place by a front-end loader or truck. A front-end loader removes all material.

(8) Description of Control Measure
Described below under CONTROL MEASURES.

(9) Specification of dust suppressant material
Based on the design and configuration of the facility, dust suppressant is not a recommended method of controlling fugitive emission. Unimin has designed and implemented other forms of fugitive particulate matter emission control.

(10) Specifications of the particulate matter collection equipment
Specifications of the particulate matter collection equipment are identified in the IDEM air permit 037-30155-00062, which may be amended from time to time.

(11) Schedule of Compliance
A schedule of compliance is not in place, nor required at the Huntingburg facility.

(12) Recordkeeping
Unimin will maintain records for three years, which document all control measures and activities to be implemented for this control plan. Most of the maintenance records will be maintained on the Qqest electronic database and can be recalled at the request of an inspector.

CONTROL MEASURES

Control measures for fugitive particulate matter emissions generated from the emission points listed in Item 3, are identified below:

(a) Paved Roads, unpaved roads, and parking lots
The plant is located at the end of a paved city-owned road. The plant does not maintain the city road. There is less than one tenth of an acre of unpaved driveway for loading bagged product onto tractor-trailers. The parking area is an insignificant source of fugitive emission. A concrete pad, approximately three tenths of an acre in size, is located below the outdoor process equipment. Fugitive emissions are minimized by controlling emissions on the process equipment (i.e. covered conveyance, baghouses) and by applying good housekeeping practices.

(b) Open aggregate piles
Open stockpiles are located on two sides of the plant. To mitigate stockpile emissions, Unimin has implemented a number of strategies including:

(1) Minimizing stockpile size – Stockpiles formerly covering 6 acres has been reduced to almost half that size. Former stockpile areas have been graded, covered with topsoil and re-vegetated. Maintaining smaller stockpiles will continue as part of operational practices to reduce on-site inventories.

(2) Placing stockpiles under cover – A number of storage bays have been created under stationary cover to store raw materials away from the wind and rain.

(3) Tarping and vegetating stockpiles – Unimin has on occasion used tarps and vegetated piles to reduce wind erosion and will implement these measures on a case-by-case basis.

(c) Outdoor conveying of aggregate material
Unimin minimizes fugitive emissions from process equipment by covering conveyor belts.

(d) Transfer of aggregate material
Emissions are generated when aggregate material is transferred from the shredder to a stockpile. Fugitive emissions are reduced by operating in unexposed locations. The shredder is operated under cover and discharges into a storage bay. When possible, the equipment use will be

restricted in exceptionally windy conditions.

(e) Transportation by truck, front end loader or train
Trucks, which haul clay to the facility, use tarps for emission control. A front-end loader is used to transfer raw materials into open hoppers. Fugitive emissions have been minimized by locating the two batch hoppers in an unexposed area adjacent to the process building. Transport distances on-site are short (< 600 feet), however when possible, the truck loading (from rail cars) and truck unloading will be restricted in exceptionally windy conditions.

(f) Loading and unloading operations of material from storage facilities such as bins, hoppers, and silos, onto or out of vehicles
Raw material loading/unloading operations have been discussed elsewhere in this Control Plan. Product is loaded into silos for transfer to truck and railcars. Emissions from the loadout spouts are controlled by the silo baghouses. Pre-1999, the greatest source of fugitive emissions was caused by silo over-filling. Unimin installed “high level indicators” in all silos, which triggers a warning light to inform the operator, who then shuts down the fill lines. This tool has worked very effectively.

(g) Solid Waste Handling
Office and plant waste is placed in designated waste bins and hauled off-site by disposal contractors. Mineral waste is recycled into the plant process wherever feasible. A Plant Waste Disposal Policy/Procedure was generated in 2000 for proper management of plant wastes.

(h) Material handling operations such as crushing, grinding, screening, and mixing
Grinding and screening do not occur at the Huntingburg plant. Milling and mixing operations are vented to fabric filters. A stationary tile crusher is located outdoors. Bathroom wall tile is crushed and discharged into a covered storage bay for use as a raw material.

(i) Escape through building opening such as doors, windows, powered or unpowered ventilators, roof monitors, other than a stack
Unimin follows an equipment maintenance program (Qqest) to ensure proper maintenance of the process equipment and particulate collection system. Unimin obtained written approval from Craig Lawson (IDEM Office of Water Management, Pre-Treatment & Urban Wet Weather Section) to use a floor sweeper to wash the floors to minimize fugitive emissions within the plant and warehouse. In so far as sources of fugitive emissions can also be sources of stormwater pollutants, Unimin has generated and implemented a Stormwater Pollution Prevention Plan (SWPPP) to reduce and mitigate potential sources of pollutants.

Attachment B, NSPS, Subpart OOO
Standards of Performance for Nonmetallic Mineral Processing Plants

Unimin Corporation - Huntingburg Facility
1405 Industrial Park Dr.
Huntingburg, Indiana 47542

Title 40: Protection of Environment
PART 60—STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES
Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants

§ 60.670 Applicability and designation of affected facility.

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

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

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

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

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

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

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

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

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

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

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

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

§ 60.671 Definitions.

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

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

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

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

Building means any frame structure with a roof.

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

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

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

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

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

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

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

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

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

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

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

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

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

(2) Sand and Gravel.

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

(4) Rock Salt.

(5) Gypsum (natural or synthetic).

(6) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(7) Pumice.

(8) Gilsonite.

(9) Talc and Pyrophyllite.

(10) Boron, including Borax, Kernite, and Colemanite.

(11) Barite.

(12) Fluorospar.

(13) Feldspar.

(14) Diatomite.

(15) Perlite.

(16) Vermiculite.

(17) Mica.

(18) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

§ 60.672 Standard for particulate matter (PM).

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

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

(c) [Reserved]

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

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

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

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

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

§ 60.673 Reconstruction.

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

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

§ 60.674 Monitoring of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(i) Installation of the bag leak detection system;

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

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

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

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

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

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

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

(ii) Sealing off defective bags or filter media;

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

(iv) Sealing off a defective fabric filter compartment;

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

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

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

§ 60.675 Test methods and procedures.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(4) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of Appendix A–1 of this part [*i.e.,* velocity head <1.3 mm H_2O (0.05 in. H_2O)] and referred to in EPA Method 5 of Appendix A–3 of this part. For these conditions, the owner or operator may determine the average gas flow rate produced by the power fans (*e.g.,* from vendor-supplied fan curves) to the building vent. The owner or operator may calculate the average gas velocity at the building vent measurement site using Equation 1 of this section and use this average velocity in determining and maintaining isokinetic sampling rates.

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

Where:

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

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

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

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

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

(h) [Reserved]

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

§ 60.676 Reporting and recordkeeping.

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

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

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

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

(2) For a screening operation:

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

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

(3) For a conveyor belt:

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

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 1 to Subpart OOO—Exceptions to Applicability of Subpart A to Subpart OOO

Table 1 to Subpart OOO—Exceptions to Applicability of Subpart A to Subpart OOO

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

Table 2 to Subpart OOO—Stack Emission Limits for Affected Facilities With Capture Systems

Table 2 to Subpart OOO—Stack Emission Limits for Affected Facilities With Capture Systems

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

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

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

Table 3 to Subpart OOO—Fugitive Emission Limits

Table 3 to Subpart OOO—Fugitive Emission Limits

For * * *	The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§60.670 and 60.671) * * *	The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *
Affected facilities (as defined in §§60.670 and 60.671) that commenced construction, modification, or reconstruction after August 31, 1983 but before April 22, 2008	10 percent opacity	15 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart.
Affected facilities (as defined in §§60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to §60.11 of this part and §60.675 of this subpart; and Periodic inspections of water sprays according to §60.674(b) and §60.676(b); and
			A repeat performance test according to §60.11 of this part and §60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in §60.674(b) and §60.676(b) are exempt from this 5-year repeat testing requirement.

Indiana Department of Environmental Management
Office of Air Quality

Addendum to the Technical Support Document (ATSD) for a Minor Source Operating Permit

Source Background and Description

Source Name:	**Unimin Corporation - Huntingburg Facility**
Source Location:	**1405 Industrial Park Dr, Huntingburg, Indiana 47542**
County:	**Dubois**
SIC Code:	**1459**
Operation Permit No.:	**M037-30155-00062**
Permit Reviewer:	**Marcia Earl**

On October 30, 2011, the Office of Air Quality (OAQ) had a notice published in The Herald, Jasper, Indiana, stating that Unimin Corporation - Huntingburg Facility had applied for a Minor Source Operating Permit Renewal. The notice also stated that the OAQ proposed to issue a Minor Source Operating Permit Renewal for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

On November 28, 2011, Unimin Corporation - Huntingburg Facility submitted comments to IDEM, OAQ on the draft Minor Source Operating Permit Renewal.

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

Comment 1:

The emission limitations in the draft MSOP currently do not include existing Bin (Bin-108) that exhausts to Dust Collector (DC-130), which is identified as source (z) in the Emission Unit Descriptions of Subsection D.1

Response to Comment 1:

IDEM agrees with the recommended changes. The permit has been revised as requested.

...

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

(a) In order to render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable, the Permittee shall comply with the following limitations:

...

(13) The PM emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

PM10

(1~~3~~**4**) The PM10 emissions from baghouse DC-227 shall not exceed 0.26 pounds per hour.

(1~~4~~**5**) The PM10 emissions from baghouse DC-612 shall not exceed 0.26 pounds per hour.

(1~~5~~**6**) The PM10 emissions from baghouse DC-622 shall not exceed 0.26 pounds per hour.

(1~~6~~**7**) The PM10 emissions from baghouse DC-632 shall not exceed 0.26 pounds per hour.

(1~~7~~**8**) The PM10 emissions from baghouse DC-714 shall not exceed 0.26 pounds per hour.

(1~~8~~**9**) The PM10 emissions from baghouse DC**-**724 shall not exceed 0.26 pounds per hour.

(~~19~~**20**) The PM10 emissions from baghouse DC-734 shall not exceed 0.26 pounds per hour.

(2~~0~~**1**) The PM10 emissions from baghouse DC-754, shall not exceed 0.26 pounds per hour.

(2~~1~~**2**) The PM10 emissions from baghouse DC-117 shall not exceed 2.57 pounds per hour.

(2~~2~~**3**) The PM10 emissions from baghouse DC-217 shall not exceed 2.57 pounds per hour.

(2~~3~~**4**) The PM10 emissions from baghouse DC-912 shall not exceed 1.03 pounds per hour.

(2~~4~~**5**) The PM10 emissions from baghouse DC-807 shall not exceed 1.03 pounds per hour.

(26) The PM10 emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

PM2.5

(2~~5~~**7**) The PM2.5 emissions from baghouse DC-227 shall not exceed 0.26 pounds per hour.

(2~~6~~**8**) The PM2.5 emissions from baghouse DC-612 shall not exceed 0.26 pounds per hour.

(2~~7~~**9**) The PM2.5 emissions from baghouse DC-622 shall not exceed 0.26 pounds per hour.

(~~28~~**30**) The PM2.5 emissions from baghouse DC-632 shall not exceed 0.26 pounds per hour.

(~~29~~**31**) The PM2.5 emissions from baghouse DC-714 shall not exceed 0.26 pounds per

hour.

(3~~0~~**2**) The PM2.5 emissions from baghouse DC**-**724 shall not exceed 0.26 pounds per hour.

(3~~1~~**3**) The PM2.5 emissions from baghouse DC-734 shall not exceed 0.26 pounds per hour.

(3~~2~~**34**) The PM2.5 emissions from baghouse DC-754, shall not exceed 0.26 pounds per hour.

(3~~3~~**5**) The PM2.5 emissions from baghouse DC-117 shall not exceed 2.57 pounds per hour.

(3~~4~~**6**) The PM2.5 emissions from baghouse DC-217 shall not exceed 2.57 pounds per hour.

(3~~5~~**7**) The PM2.5 emissions from baghouse DC-807 shall not exceed 1.03 pounds per hour.

(3~~6~~**8**) The PM2.5 emissions from baghouse DC-912 shall not exceed 1.03 pounds per hour.

(39) The PM2.5 emissions from baghouse DC-130 shall not exceed 0.26 pounds per hour.

...

Additional Changes

IDEM, OAQ has decided to make additional revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

1. Section A.1 has been revised to indicate that as of October 20, 2011 Dubois County is now unclassifiable or attainment for the PM2.5 standard.

...

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

The Permittee owns and operates a stationary mineral (fireclay) processing facility.

Source Address:	1405 Industrial Park Dr., Huntingburg, Indiana 47542
General Source Phone Number:	(812) 683-2179
SIC Code:	1459
County Location:	Dubois
Source Location Status:	~~Nonattainment for PM2.5 standard~~ Attainment for all ~~other~~ criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

...

IDEM Contact

(a) Questions regarding this proposed Minor Source Operating Permit Renewal can be directed to Marcia Earl at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-0863 or toll free at 1-800-451-6027 extension 3-0863.

(b) A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

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

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Minor Source Operating Permit (MSOP) Renewal

Source Background and Description

Source Name:	Unimin Corporation - Huntingburg Facility
Source Location:	1405 Industrial Park Dr., Huntingburg, IN 47542
County:	Dubois
SIC Code:	1459
Permit Renewal No.:	M037-30155-00062
Permit Reviewer:	Marcia Earl

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Unimin Corporation - Huntingburg Facility relating to the operation of a stationary mineral (fireclay) processing facility. On January 27, 2011, Unimin Corporation - Huntingburg Facility submitted an application to the OAQ requesting to renew its operating permit. Unimin Corporation - Huntingburg Facility was issued an MSOP M037-12727-00062 on October 30, 2006.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units:

(a) One (1) Mixer, identified as MX-205, constructed in 1997, with a maximum throughput of 40,000 pounds per hour, with emissions controlled by baghouse DC-227 (not integral), and exhausting to stack 227.

(b) One (1) Roller Mill/Whizzer Separator, identified as RL-110/111, constructed in 1981, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to Stack 117.

(c) One (1) Roller Mill/Whizzer Separator, identified as RL-210/211, constructed in 1982, with a maximum throughput of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack 217.

(d) One (1) Silo, identified a SI-610, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-612, and exhausting to stack 612.

(e) One (1) Silo, identified as SI-620, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-622, and exhausting to stack 622.

(f) One (1) Silo, identified as SI-630, constructed before August 1983, with a maximum capacity of 36,000 pounds per hour, with emissions controlled by an integral baghouse DC-632, and exhausting to stack 632.

(g) One (1) North Storage Bin, identified as BN-710, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(h) One (1) Middle Storage Bin, identified as BN-720, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(i) One (1) North Bin Loadout Spout, identified as LS-712, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-714, and exhausting to stack 714.

(j) One (1) Middle Bin Loadout Spout, identified as LS-722, constructed before August 1983, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-724, and exhausting to stack 724.

(k) One (1) Mill #1 Heater, identified as HE-116, constructed in 1981, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-117, and exhausting to stack DC-117.

(l) One (1) Mill #2 Heater, identified as HE-216, constructed in 1982, with a maximum heat input capacity of five (5) million BTU per hour, with emissions controlled by an integral baghouse DC-217, and exhausting to stack DC-217.

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) Bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-912, and exhausting to stack 912.

(r) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(s) One (1) Belt Conveyor, identified as BC-102, constructed in1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(t) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, and a source of fugitive emissions.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (u) are considered affected facilities.

(v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(w) One (1) Hopper, identified as HO-200, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(x) One (1) Hopper, identified as HO-400, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(y) One (1) Hopper, identified as HO-500, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(z) One (1) Bin, identified as BN-108, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emission controlled by baghouse DC-130, and exhausting to stack 130.

(aa) Activities with particulate matter emissions equal to or less than 5 tons per year: Fugitive emission sources constructed before August 1983: Belt conveyors BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, and BC-011; Bin BN-208; Portable Clay Shredder (including Shredder SH-001, Feeder FE-001 and Belt Conveyors BC-001, BC-002), and Hopper HO-100.

(bb) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, Parts washer using mineral spirits which commenced operations in 1981.

(cc) Combustion source flame safety purging on startup.

(dd) 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, identified as TA-090.

(ee) Cleaners and solvents characterized as follows where the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months. Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F): Use of cans of citrus and penetrating oil.

(ff) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment cutting torches, soldering equipment, welding equipment.

(gg) Replacement and repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment: Baghouse bags and air filters.

(hh) Paved and Unpaved roads and parking lots with public access.

(ii) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment: Secondary containment for 500 gallon portable diesel storage tanks.

(jj) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with design grain loading or less than or equal to three one-hundredths grains per actual cubic foot (0.03 gr/acf) and a gas flow rate less than or equal to four thousand actual cubic feet per minute (4,000 acf/min), including pneumatic conveying.

(kk) Purge double block and bleed valves.

(ll) Filter or coalescer media changeout

(mm) Air compressors and pneumatically operated equipment, including hand tools;

(nn) Compressor or pump lubrication and seal oil systems;

(oo) Miscellaneous equipment, but no emissions associated with the process for which the equipment is used;

(pp) Electric or steam heated drying ovens and autoclaves, including only the heating emissions and not any associated process emissions.

(qq) Equipment used for quality control/assurance or inspection purpose, including sampling equipment used to withdraw material for analysis;

Existing Approvals

The source has been operating under Minor Source Operating Permit No. M037-12727-00062, issued on October 30, 2006.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Upon further review, IDEM, OAQ has decided to make the following changes to the permit. IDEM has also made the following changes to clarify Sections B and Sections C in the permit. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

Change 1

. Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch". The permit has been revised as follows:

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

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

Change No. 2

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

Change No. 3

IDEM has determined that rather than having a Certification condition and various references throughout the permit as to whether a particular report, notice, or correspondence needs to include a certification, the specific conditions that require an affirmation of truth and completeness shall state so. The certification condition has been removed. All statements to whether a certification, pursuant to the former Section B - Certification, is needed or not have been removed. Section B - Credible Evidence and Section C - Asbestos Abatement Projects still require certification as the underlying rules also required certifications.

Change No. 4

IDEM has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timelines have been switched to "no later than" or not later than".

Change No. 5

IDEM has decided to clarify Section B - Preventive Maintenance Plan.

Change No. 6

IDEM has decided to state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Section B - Permit Renewal has been revises.

Change No. 7

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

Change No. 8

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

Change No. 9

IDEM has removed the first paragraph of Section C - Performance Testing as due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures

Change No 10

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

Change No. 11

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

Change No. 12

IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emission minimization. The start of the timelines was switched from "the receipt of the test results" to" the date of the test." There was confusion if the "receipt" was by IDEM,

the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline, and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.

Change No. 13

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

Change No. 14

IDEM has decided to allow the Permittee the option of using manufacturer's recommendations for the calibration frequency.

Change No. 15

IDEM, OAQ has decided to remove all references to the source mailing address. IDEM OAQ will continue to maintain records of the mailing address.

Change No. 16

Section A.1 of the permit has been revised to remove the name or title of the Authorized Individual (A.I), since IDEM no longer lists this information in the permit document.

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

The Permittee owns and operates a stationary mineral (fireclay) processing facility.

Source Address:	1405 Industrial Park Dr., Huntingburg, Indiana 47542
~~Mailing Address:~~	~~P. O. Box 194, Huntingburg, Indiana 47542~~

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

...

(~~s~~r) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-807, and exhausting to stack 807.

(~~t~~s) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(~~u~~t) One (1) Belt Conveyor, identified as BC-102, constructed in 1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(~~v~~u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, a source of fugitive emissions.

(~~r~~v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-807, and exhausting to stack 807.

(w) One (1) Hopper, identified as HO-200, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(x) One (1) Hopper, identified as HO-400, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(y) One (1) Hopper, identified as HO-500, constructed in 1997, loaded by truck dumping, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(z) One (1) Bin, identified as BN-108, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by baghouse DC-130, and exhausting to stack 130.

(aa) Activities with particulate matter emissions equal to or less than 5 tons per year: Fugitive emission sources constructed before August 1983: Belt conveyors BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, and BC-011, Bin BN-208, Portable Clay Shredder (including Shredder SH-001, Feeder FE-001, and Belt Conveyors BC-001, BC-002), and Hopper HO-100.

(bb) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6: Parts washer using mineral spirits which commenced operation in 1981.

(cc) Combustion source flame safety purging on startup.

(dd) 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.

(ee) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100^{o}F): Use of cans of citrus and penetrating oil.

(ff) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment cutting torches, soldering equipment, welding equipment.

(gg) Replacement and repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment: Baghouse bags and air filters.

(hh) Paved and unpaved roads and parking lots with public access.

(ii) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment: Secondary containment for 500 gallon portable diesel storage tank.

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

(~~kk~~) ~~Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983.~~

(kk) **Grinding and machining operations with fabric filter, scrubbers, mist collectors, wet collectors and electric precipitators with design grain loading less than or equal to three one-hundredths grain per actual cubic foot (0.03 gr/acf) and a gas flow rate less than or equal to four thousand cubic feet per minute (4,000 acf/min) including pneumatic conveying**

(ll) Purge double block and bleed valves.

(mm) Filter or coalescer media changeout.

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

~~SECTION B GENERAL CONDITIONS~~

~~B.1 Definitions [326 IAC 2-1.1-1]~~

~~Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.~~

~~B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5] [IC13-15-3-6(a)]~~

~~(a) This permit, 037-12727-00062, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.~~

~~(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.~~

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

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

~~(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or~~

~~(b) the emission unit to which the condition pertains permanently ceases operation.~~

~~B.4 Enforceability~~

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

~~B.5 Severability~~

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

~~B.6 Property Rights or Exclusive Privilege~~

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

~~B.7 Duty to Provide Information~~

~~(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.~~

~~(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.~~

~~B.8 Certification~~

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

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

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

B.9 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification 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.

B.10 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) 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; and

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

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

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

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

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

B.11 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to 037-12727-00062 and issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

B.12 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least ninety (90) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.13 Permit Renewal [326 IAC 2-6.1-7]

(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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ, takes

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

B.14 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 2-6.1-6(d)]

B.15 Source Modification Requirement

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

B.16 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2][IC 13-30-3-1]

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.17 Transfer of Ownership or Operation [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.18 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.19 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Fugitive Dust Emissions [326 IAC 6-4]

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

C.4 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted to IDEM on October 16, 2001 and updated on July 2, 2002. The Fugitive Dust Control Plan is attached to this permit as Appendix A.

C.5 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 by using good engineering practices (GEP) pursuant to 326 IAC 1-7-3.

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

~~(C) Waste disposal site.~~

~~(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).~~

~~(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).~~

~~All required notifications shall be submitted to:~~

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

~~The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(e) Procedures for Asbestos Emission Control~~
~~The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.~~

~~(f) Demolition and renovation~~
~~The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).~~

~~(g) 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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.~~

~~Testing Requirements [326 IAC 2-6.1-5(a)(2)]~~

~~C.7 Performance Testing [326 IAC 3-6]~~

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements

C.9 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.10 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

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

C.11 Instrument Specifications [326 IAC 2-1.1-11

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

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

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

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

The response action documents submitted pursuant to this condition do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and

shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-5] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

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

(b) 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.

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

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

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

(a) This permit, M037-30155-00062, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.

(b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability

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

B.5 Severability

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

B.6 Property Rights or Exclusive Privilege

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

B.7 Duty to Provide Information

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

(c) The notification 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.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

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

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

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

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

The Permittee shall implement the PMPs.

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

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

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

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

The Permittee shall implement the PMPs.

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

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

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to M037-30155-00062 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

(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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least one hundred twenty (120) days prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

(c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry
[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

(a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.

(b) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.18 Credible Evidence [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at

least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

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

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

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

no later than thirty-five (35) days prior to the intended test date.

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.

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

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

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

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

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

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;

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

(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

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

(1) monitoring results;

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

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

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

(e) The Permittee shall record the reasonable response steps taken.

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.

(b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall **be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.**

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

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

(b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) Reports required by conditions in Section D of this permit shall be submitted to:

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

(b) 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.

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

...

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by an integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) Bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-912, and exhausting to stack 912.

(~~s~~r) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-807, and exhausting to stack 807.

(~~t~~s) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(~~u~~t) One (1) Belt Conveyor, identified as BC-102, constructed in1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(~~v~~u) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, and a source of fugitive emissions.

Under the NSPS for Standard of Performance for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) the units listed above (m) through (u) are considered affected facilities.

(~~r~~v) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by an integral baghouse DC-908, and exhausting to stack 807.

...

(aa) Activities with particulate matter emissions equal to or less than 5 tons per year: Fugitive emission sources constructed before August 1983: Belt conveyors BC-201, BC-202, BC-203, BC-203, BC-204, BC-401, BC-411, BC-501, and BC-011; Bin BN-208; Portable Clay Shredder (including Shredder SH-001, Feeder FE-001 and Belt Conveyors BC-001, BC-002), and Hopper HO-100.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2 (Particulate Emission Limitations) the particulate emissions from facilities identified as MX-205, RL-110/111, RL-201/211, SI-610, SI-620, SI-630, BN-710, BN-720, **BN-730**, LS-712, LS-722, **LS-732**, **LS-752**, **BN-910**, **BA-914/SC-911**, **BN-810**, **BA-811**, HE-116 and HE-216 shall not exceed 0.03 grains per dry cubic standard foot.

~~D.1.2 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]~~

~~Pursuant to 326 IAC 6-5, fugitive particulate matter emissions from the following facilities: BC-101, BC-102, CR-410, HO-200, HO-400, HO-500, BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, BC-011, BN-208, Portable Clay Shredder and Feeder (SH-001 and FE-001), BC-001, BC-002, and HO-100 shall be controlled according to the plan submitted on July 2, 2002. The plan identifies which measures will be taken to mitigate fugitive particulate matter emissions from open aggregate piles, outdoor conveying of aggregate material, transfer of aggregate material, transportation of material, loading and unloading operations, solid waste handling, and material handling operations. The plan is attached to the permit as Attachment A.~~

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.1.3 Particulate Control

~~(a) Pursuant to CP-037-7958-0062, issued on February 18, 1997, and in order to comply with Condition D.1.1, the baghouse (DC-227) for particulate control shall be in operation and control emissions from the mixer (MX-205) at all times the mixer is in operation.~~

(~~b~~**a**) In order to comply with Condition D.1.1, the baghouses, including those integral to the process, for particulate control shall be in operation and control emissions from facilities RL-110/111, RL-210/211, SI-610, SI-620, SI-630, BN-710, BN-720, BN-108, LS-712, LS-722, HE-116, and HE-216**, BN-730, LS-732, Ls-752, BN-910, BA-014/SC-911 and BA-811** at all times these facilities are in operation.

(~~c~~**b**) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.4 Visible Emission Notations

(a) Visible emission notations from the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN720, LS-722 (DC-734), BN-108 (DC-130, LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-814 (DC-912) and BN-810, BA-811 (DC-908) stack exhausts shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C- Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.1.5 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN720, LS-722 (DC-734), BN-108 (DC-130, LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-814 (DC-912) and BN-810, BA-811 (DC-908) at least once per day when these processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range of 3.0 and 6.0 of water or a range established during the latest stack test, the Permittee shall take reasonable steps. Section C – Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.~~7~~**6** Broken or Failed Bag Detection

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

.

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

processing of the material in the line. 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 C - Response to Excursions or Exceedances).

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

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.1.7 Record Keeping Requirements

(a) To document the compliance status with Condition D.1.4, the Permittee shall maintain records of visible emission notations of the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN720, LS-722 (DC-734), BN-108 (DC-130), LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-814 (DC-912) and BN-810, BA-811 (DC-908) stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of the visible emission notation (e.g., the process did not operate that day).

(b) To document the compliance status with Condition D.1.5, the Permittee shall maintain records of the pressure drop across the baghouses used in conjunction with the mixing operations MX-205 (DC-227), the milling operation RL-110/111 (DC117), RL-210/211 (DC-217), the storage-loading operation SI-610 (DC-612), SI-620 (DC-622), SI-630 (DC-632), BN-710, LS-712 (DC-714), BN720, LS-722 (DC-734), BN-108 (DC-130), LS-752 (DC-754), the bagging-palletizing operation BN-910, SC-911/BA-814 (DC-912) and BN-810, BA-811 (DC-908) during normal operation when venting to the atmosphere. The Permittee shall include in each daily record when a pressure drop reading is not taken and the reason for the lack of the pressure drop reading (e.g. the process did not operate that day).

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description [326 IAC 2-6.1-5(a)(1)]:

(m) One (1) South Storage Bin, identified as BN-730, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(n) One (1) South Bin Loadout Spout, identified as LS-732, constructed in 1991, with a maximum capacity of 200,000 pounds per hour, with emissions controlled by integral baghouse DC-734, and exhausting to stack 734.

(o) One (1) Railroad Loadout Spout, identified as LS-752, constructed in 1991, with a maximum capacity of 100,000 pounds per hour, with emissions controlled by baghouse DC-754 (not integral), and exhausting to stack 754.

(p) One (1) Storage Bin, identified as BN-910, constructed in 1999, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(q) One (1) Bulk Bagger/Screw Conveyor, identified as BA-914/SC-911, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-912, and exhausting to stack 912.

(r) One (1) Storage Bin, identified as BN-810, constructed before August 1983, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-807, and exhausting to stack 807.

(s) One (1) 3-Spout Packer unit, identified as BA-811, constructed in 1991, with a maximum capacity of 20,000 pounds per hour, with emissions controlled by integral baghouse DC-807, and exhausting to stack 807.

(t) One (1) Belt Conveyor, identified as BC-101, constructed in 1998, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(u) One (1) Belt Conveyor, identified as BC-102, constructed in 1991, with a maximum capacity of 40,000 pounds per hour, and a source of fugitive emissions.

(v) One (1) Portable Tile Crusher, identified as CR-410, constructed in 1997, with a maximum capacity of 30,000 pounds per hour, a source of fugitive emissions.

(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 2-6.1-5(a)(1)]

D.2.1 Particulate [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2, (Particulate Emission Limitations), the allowable particulate emission rate from facilities BN-730, LS-732, LS-752, BN-910, BA-914,/SC-911, BN-810, and BA-811 shall not exceed 0.03 grains per dry standard cubic foot.

~~D.2.2 Preventive Maintenance Plan [326 IAC 1-6-3]~~

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their baghouses, including those baghouses that are integral to the process.~~

~~Compliance Determination Requirements~~

~~D.2.3 Particulate Control~~

~~(a) In order to comply with Condition D.2.1, the baghouses for particulate control shall be in operation and control emissions from the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3-Spout Packer unit (BA-811) at all times that these facilities are in operation.~~

~~(b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.~~

~~Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]~~

~~D.2.4 Visible Emissions Notations~~

~~(a) Visible emission notations of the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3-Spout Packer unit (BA-811) stack exhausts shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.~~

~~(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.~~

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

~~(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.~~

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

~~D.2.5 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouses used in conjunction with the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3-Spout Packer unit (BA-811) at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in~~

accordance with Section C - to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.2.6 Broken or Failed Bag Detection

(a) For a single compartment baghouse controlling emissions from a process operated continuously, failed units and the associated process shall be shut down immediately until the failed unit have been repaired or replaced.

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

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

Record Keeping and Reporting Requirement

D.2.7 Record Keeping Requirements

(a) To document compliance with Condition D.2.4, the Permittee shall maintain records of visible emission notations of the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), and the 3-Spout Packer unit (BA-811) stack exhausts once per day.

(b) To document compliance with Condition D.2.5, the Permittee shall maintain records once per day of the pressure drop during normal operation.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

D.2.8 General Provisions Relating to New Source Performance Standards Under 40 CFR Part 60 [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.670(f), the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for the mineral processing operations, in accordance with the schedule in 40 CFR 60, Subpart OOO.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all of the required notifications and reports to:

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

~~D.2.9 New Source Performance Standard for Nonmetallic Mineral Processing Plants Requirements [40 CFR Part 60, Subpart OOO] [326 IAC 12]~~

~~Pursuant to 40 CFR Part 60, Subpart OOO, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart OOO, which are incorporated by reference as 326 IAC 12, for the mineral processing operations identified as the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), 3-Spout Packer unit (BA-811), Belt Conveyor (BC-101), Belt Conveyor (BC-102), and Tile Crusher (CR-410) as specified as follows.~~

Section D.2 has been combined with Section D.1

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(cc) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, Parts washer using mineral spirits which commenced operations in 1981.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

(1) Equip the cleaner with a cover;

(2) Equip the cleaner with a facility for draining cleaned parts;

(3) Close the degreaser cover whenever parts are not being handled in the cleaner;

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label summarizing the operation requirements;

(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

...

~~Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants~~

~~Source:~~ ~~51 FR 31337, Aug. 1, 1985, unless otherwise noted.~~

~~§ 60.670 Applicability and designation of affected facility.~~

~~(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that~~

reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

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

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

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

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

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.671 Definitions.

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

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

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

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

Building means any frame structure with a roof.

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

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

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

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

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

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

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

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

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

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

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

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

~~(b) Sand and Gravel.~~

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

~~(d) Rock Salt.~~

~~(e) Gypsum.~~

~~(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.~~

~~(g) Pumice.~~

~~(h) Gilsonite.~~

~~(i) Talc and Pyrophyllite.~~

~~(j) Boron, including Borax, Kernite, and Colemanite.~~

~~(k) Barite.~~

~~(l) Fluorospar.~~

~~(m) Feldspar.~~

~~(n) Diatomite.~~

~~(o) Perlite.~~

~~(p) Vermiculite.~~

~~(q) Mica.~~

~~(r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.~~

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

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

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

~~*Screening operation* means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).~~

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

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

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

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

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

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

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

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

~~[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]~~

~~§ 60.672 Standard for particulate matter.~~

~~(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, 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 stack emissions which:~~

~~(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and~~

~~(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of §60.676 (c), (d), and (e).~~

~~(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 §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.~~

~~(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) of this section, 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 §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) of this section.~~

~~(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 §60.11 of this part, 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)(1) and (a)(2) of this section.~~

~~[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]~~

~~§ 60.673 Reconstruction.~~

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

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

~~§ 60.675 Test methods and procedures.~~

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

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

~~(1) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.~~

~~(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.~~

~~(c)(1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:~~

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

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

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

~~(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:~~

~~(i) There are no individual readings greater than 10 percent opacity; and~~

~~(ii) There are no more than 3 readings of 10 percent for the 1-hour period.~~

~~(d) In determining compliance with §60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.~~

~~(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.~~

~~§ 60.676 Reporting and recordkeeping.~~

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

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

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

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

~~(2) For a screening operation:~~

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

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

~~(3) For a conveyor belt:~~

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

~~(ii) The width of the replacement conveyor belt.~~

~~(4) For a storage bin:~~

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

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

~~(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).~~

~~(h) The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.~~

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

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

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

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

~~[54 FR 6680, Feb. 14, 1989, as amended at 62 FR 31360, June 9, 1997]~~

40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants has been taken out of the permit and attached as Attachment B

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Air Pollution Control Justification as an Integral Part of the Process

Pursuant to MSOP No. M037-12727-00062, issued October 30, 2006, the source submitted the following justification such that dust collectors/baghouses DC-117, DC-217, DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-807 and DC-912 be considered as an integral part of the manufacture of fireclay:

Baghouses DC-117 and DC-217 are each connected to their respective Raymond mills (RL-110/111 and RL-210/211). The baghouses are a fundamental component to the milling operation because (1) they maintain a negative pressure throughout the system. and (2) they work in conjunction with a cyclone to

collect product and return it to the circuit. Based on a confidential economic analysis provided by the source, the value of the product recovered by DC-117 and DC-217 far exceeds the total capital and operating cost of the baghouses. The payback period associated with the capital costs and operation of DC-117 and DC-217 is approximately five months. As a result, the baghouses DC-117 and DC-217 serve a primary purpose other than pollution control and have a overwhelming positive net economic effect.

Baghouses DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-807 and DC-912 are mounted on three silos and five bins. The silo/bins are loaded with product or raw material pneumatically through the baghouse with the primary purpose to: 1) neutralize the bin pressure, and 2) separate raw materials from air for shipment, Maintenance of the air pressures is necessary for the effective and safe operation of the equipment. Without the existence of the baghouses, positive pressure would quickly build up in the silos and bins, causing structural failure of the equipment and loss of all of the product or raw material conveyed. Based on a confidential economic analyisis provided by the source, the value of the product recovered by baghouses DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-807 and DC-912 far exceeds the total capital and operating costs of the dust collectors. The payback period associated with the capital costs and operation of the baghouses is approximately 1 year. As a result, baghouses DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-807 and DC-912 serve a primary purpose other than pollution control and have an overwhelming positive net economic effect.

IDEM, OAQ has evaluated the justifications and agree that baghouses DC-117, DC-217, DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-807 and DC-912 will be considered as an integral part of the processing of fireclay. Therefore, the permitting level will be determined using the potential to emit after the baghouses. Operating conditions in the permit will specify that the baghouses shall operated at all times when the fireclay manufacturing process is in operation.

Note, that baghouses DC-227 and DC-754, controlling emissions from MX-205 and LS-752, respectively, are not integral to the process.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Dubois County.

Pollutant	Designation
SO_2	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O3	Unclassifiable or attainment effective June 15, 2004, for the 8-hour ozone standard.[1]
PM_{10}	Unclassifiable effective November 15, 1990.
NO_2	Cannot be classified or better than national standards.
Pb	Not designated.

[1]Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.
Basic nonattainment effective April 5, 2005, for $PM_{2.5}$.

(a) Ozone Standards
Volatile organic compounds (VOC) 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. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Dubois County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) $PM_{2.5}$
Dubois County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8, 2008, U.S. EPA promulgated specific New Source Review rules for $PM_{2.5}$ emissions. These rules became effective on July 15, 2008. Therefore, direct $PM_{2.5}$ and SO_2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

Fugitive Emissions

(a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

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

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Unrestricted Potential Emissions	
Pollutant	Tons/year
PM	317,939.26
PM_{10}	317,902.61
$PM_{2.5}$	317902.52
SO_2	2.76E-02
VOC	0.33
CO	3.87
CO2e	5914.02
NO_x	4.70

HAPs	Tons/year
Benzene	negligible
Dichlorobenzene	negligible
Formaldehyde	negligible

Hexane	0.08
Toluene	negligible
Total	**0.08**

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all regulated pollutants is less than 100 tons per year. However, PM/PM10/PM2.5 is equal to or greater than twenty-five (25) tons per year. The source is not subject to the provisions of 326 IAC 2-7. Therefore, the source will be issued an MSOP Renewal.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and/or the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source will be issued an MSOP Renewal.

(c) The potential to emit of each criteria pollutant is <100 tons per year, potential to emit of GHGs is less than one hundred thousand (100,000) tons of CO_2 equivalent emissions (CO_2e) per year, the potential to emit any single HAP is <10 tons per year, and the potential to emit any combination of HAP is <25 tons per year. However, the Permittee wishes this source to remain permitted as a Title V source.

Potential to Emit After Issuance

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

Process/ Emission Unit	**Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)**									
	PM	PM_{10}*	$PM_{2.5}$**	SO_2	NO_x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Mixing	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Milling	7.81	7.81	7.81	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Storage-loading	6.71	6.71	6.71	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Bagging-palletizing	2.19	2.19	2.19	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fugitive Sources	24.52	24.52	24.52	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Combust-ion	0.04	0.17	0.17	0.01	2.27	0.12	1.91	2,742	0.04	Hexane 0.04
Propane	5.74E-03	2.01E-02	2.01E-02	2.78E-03	0.37	2.78E-02	0.22	579	0.00	N/A
Parts Washer	0.00	0.00	0.000	0.00	0.00	0.06	0.00	0.00	0.00	N/A
Paved Roads	0.60	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total PTE of Entire Source	49.73	49.35	49.26	0.03	2.55	0.21	2.07	3321.87	0.04	Hexane 0.04

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Renewal (tons/year)									
	PM	PM_{10}*	$PM_{2.5}$**	SO_2	NO_x	VOC	CO	GHGs	Total HAPs	Worst Single HAP
Title V Major Source Thresholds	NA	100	100	100	100	100	100	100,000 CO_2e	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	100,000 CO_2e	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

negl. = negligible
*Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".
**$PM_{2.5}$ listed is direct $PM_{2.5}$.

PSD Minor Source
This existing stationary source is not major for PSD (316 IAC 2-2) because all the regulated pollutants, excluding GHGs, are limited to less than two hundred fifty (<250) tons per year, emissions of GHGs are less than one hundred thousand (<100,000) tons of CO_2 equivalent emissions (CO_2e) per year, and it is not in one of the twenty-eight (28) listed source categories.

Federal Rule Applicability

New Source Performance Standards (NSPS)

(a) The requirement for the New Source Performance Standars (NSPS) for Metallic Mineral Processing 40 CFR 60, Subpart LL (60.380 through 60.386) (326 IAC 12) is not included in this permit because this facility is a mineral (fireclay) processing plant and not a metallic mineral process ing plant.

(b) This source is subject to the requirements of the New Source Performance Standards for Standard of Performance for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO, (40 CFR 63.670 through 60.676) (326 IAC 12) because this source operates a fireclay processing plant and fireclay is a nonmetallic mineral, as defined in 40 CFR 60.671. Pursuant to 40 CFR 60.670, the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), 3-Spout Packer unit (BA-811), Belt Conveyor (BC-101), Belt Conveyor (BC-102), and Tile Crusher (CR-410) are affected facilities subject to the requirements of this subpart because these facilities are crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, or enclosed truck or railcar loading stations located at a fixed nonmetallic mineral processing plant and commenced construction, reconstruction, or modification after August 31, 1983.

The emission units identified as the South Storage Bin (BN-730), South Bin Loadout Spout (LS-732), Railroad Loadout Spout (LS-752), Storage Bin (BN-910), Bulk Bagger/Screw Conveyor (BA-914/SC-911), 3-Spout Packer unit (BA-811), Belt Conveyor (BC-101), Belt Conveyor (BC-

102), and Tile Crusher (CR-410) are subject to the following portions of Subpart OOO. Non applicable portions of the NSPS will not be included in the permit:

(1) 40 CFR 60.670(a), (d), (e), (f)
(2) 40 CFR 60.671
(3) 40 CFR 60.672(a), (b), (d), (e), (f)
(4) 40 CFR 60.673
(5) 40 CFR 60.675(a), (b), (c)(1)(i), (ii). (c)(2), (3), (d), (g)
(6) 40 CFR 60.676(a), (f), (h), (i), (j)
(7) Table 1

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to this facility described in this section except when otherwise specified in 40 CFR 60, Subpart OOO.

(c) The requirements of the New Source Performance Standards for Calciners and Dryers in Mineral Industries (40 CFR 60, Subpart UUU (60.730 through 60.737) (316 IAC 12) are not included in this permit because the Mill/Whizzer Separators (RL-110/111 and RL-210/211) are grinding equipment that also dries the process material used in mineral industries as defined in 60.731 are not subject to 40 CFR 60, Subpart UUU.

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

(e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Halogenated Solvent Cleaning, 40 CFR 63, Subpart T (40 CFR 63.460 through 63.471) (326 IAC 20-6) are not included in this permit for the degreasing operations. The cold solvent cleaning machine does not use a solvent containing methylene chloride, perchlorethylene, trichloretylene, 1,1,1-trichlorethane, carbon tetrachloride, chloroform or any combination of these halogenated HAP solvents in a total concentration greater than five percent (5%) by weight as a cleaning or drying agent.

(f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Refractory Products Manufacturing, 40 CFR 63, Subpart SSSSSS (63.9780 through 63.9824) (326 IAC 20-62) are not included in this permit because this source is not manufacturing refractory products from the fireclay.

(g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) For Source Category: Gasoline Dispensing Facility, 40 CFR 63, Subpart CCCCCC (63.11110 through 63.11132) is not included in this permit because this source dispenses petroleum other than gasoline.

(h) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability - Entire Source

326 IAC 1-7 (Stack Height Provisions)

Pursuant to 326 IAC 1-7, the source shall comply with 326 IAC 1-7-3 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.

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

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

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

(a) In order to render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable baghouse DC-227, DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-754, DC-912, DC-117, DC-217, and DC-807 shall not exceed the following limitations.

(1) The PM/PM10/PM2.5 emissions from baghouse DC-227, DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-754, shall not exceed 0.26 pounds per hour

(2) The PM/PM10/PM2.5 emissions from baghouse DC-117 and DC-217 shall not exceed 2.57 pounds per hour.

(3) The PM/PM10/PM2.5 emissions from baghouse DC-912 and DC-807 shall not exceed 1.03 pounds per hour.

The baghouses from the mixing, milling, storage-loading, and bagging- palletizing operations must be in operation at all times that the mixing, milling, storage-loading, and bagging-palletizing operations are in operations to comply with 326 IAC 2-2 (Prevention of Significant Deterioration).

Compliance with these limits, combined with the potential PM/PM10/PM2.5 emissions from all other emission units at this source, shall limit the source-wide total potential to emit PM and PM2.5 to less than 250 tons per 12 consecutive month period, each, and render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

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

The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting) because it is not required to have an operating permit pursuant to 326 IAC 2-7 (Part 70); it is not located in Lake, Porter, or LaPorte County, and its potential to emit lead is less than 5 tons per year. Therefore, this rule does not apply.

326 IAC 5-1 (Opacity Limitations)

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

(1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

Pursuant to 326 IAC 6-3-1(c)(3), this rule shall not apply if a particulate matter limitation is established in 326 IAC 6.5. The following facilities are subject to the particulate matter limitations established in 326 IAC 6.5-1-2(a): MX-205, RL-110/111, RL-210/211, SI-610, SI-620, SI-630, BN-710, BN-720, BN-730, LS-712, LS-722, LS-732, LS-752, BN-910, BA-914/SC-911, BN-810, BA-811, the brazing equipment, cutting torches, soldering equipment and welding equipment Therefore, pursuant to 326 IAC 6-3-1(c)(3), the requirements of 326 IAC 6-3 do not apply.

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

Pursuant to 326 IAC 6-5, fugitive particulate matter emissions from the following facilities: BC-101, BC-102, CR-410, HO-200, HO-400, HO-500, BC-201, BC-202, BC-203, BC-204, BC-401, BC-411, BC-501, BC-011, BN-208, Portable Clay Shredder (SH-001 and Feeder FE-001), and BC-001 , BC-002 and HO-100 shall be controlled according to the Fugitive Dust Control Plan submitted on July 2, 2002. The plan identifies which measures will be taken to mitigate fugitive particulate matter emissions from open aggregate piles, outdoor conveying of aggregate material, transfer of aggregate material, transportation of material, loading and unloading operations, solid waste handling, and material handling operations. The plan is attached to the permit as Attachment A.

326 IAC 6.5-1-2 (Particulate Matter Limitations except Lake County)

This source is subject to 326 IAC 6.5-1-2 (Particulate Emissions Limitations), because it is located in Dubois County and has actual particulate emissions greater than ten (10) tons per year.

(a) Pursuant to 326 IAC 6.5-1-2, the particulate emissions from facilities identified as MX-205, RL-110/111, RL-210/211, SI-610, SI-620, SI-630, BN-710, BN-720, BN-730, LS-712, LS-722, LS-732, LS-752, BN-910, BA-914/SC-911, BN-810, BA-811, HE-116 and HE-216 shall not exceed 0.03 grains per dry standard cubic foot.

(b) Pursuant to 326 IAC 6.5-1-2(a), the particulate emissions from brazing equipment, cutting torches, soldering equipment and welding equipment shall not exceed 0.03 grains per dry standard cubic foot.

Compliance testing was performed and validated on July 21, 2005 and September 8, 2005, the souce is in compliance with the limitations in 326 IAC 6.5-1-2 by operating the integral and non-integral baghouses at all times that the milling, mixing, storage-loading, and bagging-palletizing operations are in operation.

326 IAC 6.5-4 (Particulate Emissions Limitations: Dubois County)

The particulate matter limitations listed in 326 IAC 6.5-4 do not apply to this source and its facilities because it is not one of the listed sources in 326 IAC 6.5-4.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

The fireclay processing facilities are not subject to 326 IAC 8-1-6 (New Facilities; General Reduction Requirements) because the potential to emit (PTE) of VOC from the fireclay processing facilities are less than twenty-five (25) tons per year.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

Pursurant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

(1) Equip the cleaner with a cover;

(2) Equip the cleaner with a facility for draining cleaned parts;

(3) Close the degreaser cover whenever parts are not being handled in the cleaner;

(4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(5) Provide a permanent, conspicuous label summarizing the operation requirements;

(6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

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

Pursuant to 326 IAC 8-3-1(b), the degreasing operations located at this source are not subject to the requirements of 326 IAC 8-3-5 because the source is not located in Clark, Elkhart, Floyd, Lake, Marion, Porter, or St. Joseph counties and was constructed before the applicability date of July 1, 1990.

326 IAC 8-6 (Organic Solvent Emission Limitations)

The potential to emit VOC is less than 100 tons per year, and is not located in Lake or Marion County. Therefore, the requirements of 326 IAC 8-6 are not applicable.

Compliance Determination and Monitoring Requirements

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
Baghouses: DC-117, DC-217, DC-612, DC-622, DC-632, DC-714, DC-724, DC-734, DC-754, DC-912, and DC-807	Water Pressure Drop	Daily	1 to 6 inches	Response Steps
	Visible Emissions		Normal-Abnormal	
Baghouses: DC-227, DC-130 and DC-754	Visible Emissions	Daily	Normal - Abnormal	Response Steps
	Baghouse Inspections	Quarterly	Normal - Abnormal	

These baghouses associated with the Mixing, Milling, Storage-Loading, Bagging-Palletizing operations must operate properly to ensure compliance with 326 IAC 6.5-1 (Particulate Emissions) and 40 CFR 60, Subpart OOO and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

(b) There are no testing conditions applicable to this source.

Recommendation

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

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

An application for the purposes of this review was received on January 27, 2011.

Conclusion

The operation of this stationary mineral (fireclay) processing facility shall be subject to the conditions of the attached MSOP Renewal No. M037-30155-00062.

IDEM Contact

(a) Questions regarding this proposed permit can be directed to Marcia Earl at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-0863 or toll free at 1-800-451-6027 extension 3-0863.

(b) A copy of the findings is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/

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

Appendix A: Emission Summary

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

	Uncontrolled PTE Before Consideration of Integral Controls (Tons/Yr)									
Emission Units	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**CO2e**	**NOx**	**Total HAPs**	**Worst Case HAPs**
Mixing	50.11	13.67	13.67	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Milling	312206.40	312206.40	312206.40	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Storage-loading	664.10	664.10	664.10	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Bagging-palletizing	219.00	219.00	219	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fugitive Sources	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Combustion	8.74E-02	3.50E-01	3.50E-01	2.76E-02	0.25	3.86	5,335	4.60	0.09	Hexane 0.08
Propane Combustion	4.31E-03	1.51E-02	1.51E-02	1.08E-04	2.15E-02	0.16	275	0.28	0.00	N/A
Parts Washer	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	N/A
Paved Roads	0.60	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	313143.17	313106.52	313106.43	2.77E-02	0.34	4.02	5610.01	4.88	0.09	Hexane 0.08

	Uncontrolled PTE After Consideration of Integral Controls (Tons/Yr)									
Emission Units	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**CO2e**	**NOx**	**Total HAPs**	**Worst Case HAPs**
Mixing	50.11	13.67	13.67	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Milling	15.61	15.61	15.61	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Storage-loading	44.66	44.66	44.66	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Bagging-palletizing	2.19	2.19	2.19	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fugitive Sources	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Combustion	0.09	0.35	0.35	0.03	0.25	3.86	5,335	4.60	0.09	Hexane 0.08
Propane Combustion	4.31E-03	1.51E-02	1.51E-02	1.08E-04	2.15E-02	0.16	275	0.28	0.00	N/A
Parts Washer	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	N/A
Paved Roads	0.60	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	116.12	79.47	79.38	2.77E-02	0.34	4.02	5610.01	4.88	0.09	Hexane 0.08

	Controlled PTE (Tons/Yr)									
Emission Units	**PM**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**VOC**	**CO**	**CO2e**	**NOx**	**HAPs**	**Worst Case HAPs**
Mixing	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Milling	15.61	15.61	15.61	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Storage-loading	6.71	6.71	6.71	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Bagging-palletizing	2.19	2.19	2.19	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Fugitive Sources	2.86	2.86	2.86	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Natural Gas Combustion	0.09	0.35	0.35	0.03	0.25	3.86	5,335	4.60	0.09	Hexane 0.08
Propane Combustion	4.31E-03	0.02	0.02	0.00	0.02	0.16	275	0.28	0.00	N/A
Parts Washer	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	N/A
Paved Roads	0.60	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Total	28.12	27.88	27.79	0.03	0.34	4.02	5610.01	4.88	0.09	Hexane 0.08

Appendix A Emission Calculations
PM Emission Calculations
Fire Clay Processing - Mixing

Company Name: Unimin Corporation - Huntingburg Facility
Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Process	Unit	Unit ID	Baghouse /Stack ID	Exhaust Flow Rate (acfm)	Estimated Control Efficiency (%)	Maximum Process Throughput (ton/hr)	PM Emission Factor (lb/ton)[1]	PM10/PM2.5 Emission Factor (lb/ton)[1]	Uncontrolled PM (ton/yr)	Uncontrolled PM10/PM2.5 (ton/yr)	Controlled PM (ton/yr)	Controlled PM10/PM2.5 (ton/yr)	326 IAC 6.5-1-2 (<0.03 gr/dscf)	
													(lb/hr)	(ton/yr)
01 Clay Blends Mixing	Mixer	MX-205	**DC-227 227	1000	99.90%	20	0.572	0.156	50.11	13.67	0.05	0.01	0.43	1.88

baghouse DC-227 **not integral to the process.
[1] Emission factors from AP-42:Table 11.12-1 (concrete batch mixer loading)

METHODOLOGY
Uncontrolled Potential Emissions = emission factor (lb/ton) x maximum throughput (ton/hr) x 8760 (hr/yr) x 1/2000 (ton/lb)
Controlled Potential Emissions (ton/yr) = Uncontrolled Potential Emissions (ton/yr) x (1- control efficiency (%)

Particulate Matter Limitation (326 IAC 6.5-1-2)
Particulate Matter Limitation (lb/hr) = 0.03 (gr/dscf) * Exhaust Flow Rate (acfm) * 60 (min/hr) * 1lb/7000 (gr)
Particulate Matter Limitation (tons/yr) = Particulate Matter Limitation (lb/hr) * 8760 (hr/yr) / 1 ton/2000 lbs

Appendix A Emission Calculations
PM Emission Calculations
Fire Clay Processing - Milling

Company Name: Unimin Corporation - Huntingburg Facility
Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Process	Unit	Unit ID	Baghouse/ Stack ID	Exhaust Flow Rate (acfm)	Estimated Control Efficiency (%)	Maximum Process Throughput (tons/hr)	[b]PM/PM10/PM2.5 Emission Factor (lb/ton)	Uncontrolled PM/PM10/PM2.5 (tons/yr)	Controlled PM10/PM2.5 (tons/yr)	326 IAC 6.5-1-2 (<0.03 gr/dscf)	
										(lb/hr)	(ton/yr)
02 Milling System #1	Mill/ Whizzer	RL-110/111	*DC-117/ 117	10000	99.995%	18	1980	156103.2	7.81	2.57	11.26
03 Milling System #2	Mill/ Whizzer	RL-210/211	*DC-217/ 217	10000	99.995%	18	1980	156103.2	7.81	2.57	11.26
							TOTAL	**312206.4**	**15.61**		

*Baghouse is integral to the process.
[b] Emission factors assume 99% loss as a worst case estimate.

METHODOLOGY

Uncontrolled Potential Emissions (ton/yr) = emission factor (lb/ton) x maximum throughput (ton/hr) x 8760 (hr/yr) x 1/2000 (ton/lb)
Controlled Potential Emissions (ton/yr) = Uncontrolled Potential Emissions (ton/yr) x (1- control efficiency (%)

Particulate Matter Limitation (326 IAC 6.5-1-2)
Particulate Matter Limitation (lb/hr) = 0.03 (gr/dscf) * Exhaust Flow Rate (acfm) * 60 (min/hr) * 1lb/7000 (gr)
Particulate Matter Limitation (tons/yr) = Particulate Matter Limitation (lb/hr) * 8760 (hr/yr) / 1 ton/2000 lbs

Appendix A Emission Calculations
PM Emission Calculations
Fire Clay Processing- Storage-Loading

Company Name: Unimin Corporation - Huntingburg Facility
Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Process	Unit	Unit ID	Baghouse /Stack ID	Exhaust Flow Rate (acfm)	Estimated Control Efficiency (%)	Maximum Process Throughput (tons/hr)	[e]PM Emission Factor (lb/ton)	Uncontrolled PM (tons/yr)	Controlled PM (tons/yr)	326 IAC 6.5-1-2 (<0.03 gr/dscf)		NSPS Subpart OOO*** (<0.022 gr/dscf)	
										(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)
04 Clay Storage & Loading	[c]Silo #1	SI-610	*DC-612 /612	1000	99.00%	18	0.007	55.19	0.55	0.26	1.13		
	[c]Silo #2	SI-620	*DC-622 /622	1000	99.00%	18	0.007	55.19	0.55	0.26	1.13		
	[c]Silo #3	SI-630	*DC-632/632	1000	99.00%	18	0.007	55.19	0.55	0.26	1.13		
	[c]North Bin	BN-710	*DC-714/714	1000	99.00%	100	0.00175	76.65	0.77	0.26	1.13		
	[c]North Bin Spout	LS-712			99.00%	100	0.00175	76.65	0.77	0.00	0.00		
	[c]Middle Bin	BN-720	*DC-724/724	1000	99.00%	100	0.00175	76.65	0.77	0.26	1.13		
	[c]Middle Bin Spout	LS-722			99.00%	100	0.00175	76.65	0.77	0.00	0.00		
	[c]South Bin	BN-730	*DC-734/734	1000	99.00%	100	0.00175	76.65	0.77	0.26	1.13	0.19	0.83
	[c]South Bin Spout	LS-732			99.00%	100	0.00175	76.65	0.77	0.00	0.00	0.00	0.00
	[d]Bin (Crude Surge)	BN-108	**DC-130	1000	99.0	10	0.0072	0.32	7.67E-02	N/A	N/A		
	[c]RR Loading	LS-752	**DC-754	1000	99.00%	50	0.00175	38.33	0.38	0.26	1.13	0.19	0.83
							TOTAL	**664.10**	**6.71**				
							Uncontrolled PTE After Consideration of Integral Controls (Tons/Yr)		44.66				

*Baghouse is integral to the process.
baghouse DC-130 **not integral to the process.

Note that despite what the emission calculations may indicate, the manufacturer of the baghouses guarentees that any facility using the baghouses will be in compliance with 40 CFR Part 60 Subpart OOO.

c- Emission factors are for controlled operations from AP-42: Table 11.26-1 (Talc processing). Used because AP-42 factors for fire clay processing do not contain EFs for the respective operations.

d- Emission factors for fugitive sources are from AP-42: Table 11.26-1 (Talc processing). The EF used is for controlled operations because of the moisture content of the material is high enough to mitigate particulate emissions.

e- The source requested that the Emission Factors for units SI-610, SI-620, and SI-630 be changed from 0.00175 to 0.007 (final product storage bin loading with fabric filter lb/ton by multiplying 0.0035 by 2), and for BN-108 from 0.000048 to 0.0072 (storage bin loading with fabric filter to lb/ton multiplying 0.0036 by 2) which the source feel is a closer Emission Factor to their operation. IDEM approves.

METHODOLOGY
Uncontrolled Potential Emissions (ton/yr) = controlled emissions (ton/yr)/ (1- control efficiency (%)/100)
Controlled Potential Emissions (ton/yr) = controlled emission factor (lb/ton) x maximum throughput (ton/hr) x 8760 (hr/yr) x 1/2000 (ton/lb)

Particulate Matter Limitation (326 IAC 6.5-1-2)
Particulate Matter Limitation (lb/hr) = 0.03 (gr/dscf) * Exhaust Flow Rate (acfm) * 60 (min/hr) * 1lb/7000 (gr)
Particulate Matter Limitation (tons/yr) = Particulate Matter Limitation (lb/hr) * 8760 (hr/yr) / 1 ton/2000 lbs

*** NSPS Subpart OOO (lbs/hr) = 0.022 (g/dscf) * Exhaust Flow Rate (acfm) *60 (min/hr)/ 1 lb/7000(gr)
*** NSPS Subpart OOO (tonsyr) = NSPS Subpart OOO (lbs/hr) * 8760 (hr/yr) / 1 ton/2000 (lbs)

Appendix A Emission Calculations
PM Emission Calculations
Fire Clay Processing- Bagging/Palletizing

Company Name: Unimin Corporation - Huntingburg Facility
Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Process	Unit	Unit ID	Stack ID	Exhaust Flow Rate (acfm)	Estimated Control Efficiency (%)	Maximum Process Throughput (tons/hr)	[e]PM Emission Factor (lb/ton)	Uncontrolled PM (tons/yr)	Controlled PM (tons/yr)	326 IAC 6.5-1-2 (<0.03 gr/dscf)		NSPS Subpart OOO*** (<0.022 gr/dscf)	
										(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)
05 Bagging/ Palletizing	[c]Bulk Bag Bin	BN-910	*DC-912	4000	99.0	10	0.007	30.66	0.31	1.03	4.51	0.75	3.30
	[c]Bulk Bag Loading	SC-911/BA-914			99.0	10	0.018	78.84	0.79			0.00	0.00
	[c]Bagger Bin	BN-810	*DC-807	4000	99.0	10	0.007	30.66	0.31	1.03	4.51	0.75	3.30
	[c]3 Spout Packer	BA-811			99.0	10	0.018	78.84	0.79			0.00	0.00
							TOTAL	**219.00**	**2.19**				

*Baghouse is integral to the process.
c- Emission factors are for controlled operations from AP-42: Table 11.26-1 (Talc processing). Used because AP-42 factors for fire clay processing do not contain EFs for the respective operations.

e- The source requested that the Emission Factors for units BN-910 and BN-810 be changed from 0.00175 to 0.007 (final product storage bin loading with fabric filter to lb/ton by multiplying 0.0035 by 2), and Units SC-911 and BA-811 be changed from 0.0045 to 0.018 (package with fabric filter lb/ton multiplying 0.009 by 2), which the source feel is a closer Emission Factor to their operation. IDEM approves.

METHODOLOGY
Uncontrolled Potential Emissions (ton/yr) = controlled emissions (ton/yr)/ (1- control efficiency (%)/100)
Controlled Potential Emissions (ton/yr) = controlled emission factor (lb/ton) x maximum throughput (ton/hr) x 8760 (hr/yr) x 1/2000 (ton/lb)

Particulate Matter Limitation (326 IAC 6.5-1-2)
Particulate Matter Limitation (lb/hr) = 0.03 (gr/dscf) * Exhaust Flow Rate (acfm) * 60 (min/hr) * 1lb/7000 (gr)
Particulate Matter Limitation (tons/yr) = Particulate Matter Limitation (lb/hr) * 8760 (hr/yr) / 1 ton/2000 lbs

*** NSPS Subpart OOO (lbs/hr) = 0.022 (g/dscf) * Exhaust Flow Rate (acfm) *60 (min/hr)/ 1 lb/7000(gr)
*** NSPS Subpart OOO (tonsyr) = NSPS Subpart OOO (lbs/hr) * 8760 (hr/yr) / 1 ton/2000 (lbs)

Appendix A Emission Calculations
PM Emission Calculations
Fire Clay Processing - Various Fugitive Sources

Company Name: Unimin Corporation - Huntingburg Facility
Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Process	Unit	Unit ID	Maximum Process Throughput (ton/hr)	[e]PM Emission Factor (lb/ton)	Uncontrolled Potential To Emit (PTE) (ton/yr)
Various Fugitive Sources	Belt Conveyor	BC-001	100	0.00014	0.06
	Belt Conveyor	BC-002	100	0.00014	0.06
	Belt Conveyor	BC-101	20	0.0021	0.18
	Belt Conveyor	BC-102	20	0.0021	0.18
	Belt Conveyor	BC-201	20	0.0021	0.18
	Belt Conveyor	BC-202	20	0.0021	0.18
	Belt Conveyor	BC-203	20	0.0021	0.18
	Belt Conveyor	BC-204	20	0.0021	0.18
	Belt Conveyor	BC-401	20	0.00014	0.01
	Belt Conveyor	BC-411	20	0.00014	0.01
	Belt Conveyor	BC-501	20	0.0021	0.18
	Belt Conveyor	BC-011	20	0.0021	0.18
	Bin	BN-208	18	0.0032	0.25
	Shredder	SH-001	100	0.0007	0.31
	Crusher	CR-410	20	0.0007	0.06
	Hopper	HO-100	20	0.0021	0.18
	Hopper	HO-200	20	0.0021	0.18
	Hopper	HO-400	20	0.00014	0.01
	Hopper	HO-500	20	0.0021	0.18
	Shredder Feeder	FE-001	100	0.00014	0.06
				TOTAL	**2.86**

e- The source requested that the Emission Factors for units BC-001, BC-002, BC-401, BC-411 and HO-400 be changed from 0.000048 to 0.00014 this emission factor is taken from AP 42 Table 11.19.2-2 (2004) (Concrete Stone Processing "Conveyor Transfer Point), which the source feels is a closer emission factor to these units. IDEM approves.
Units BC-401, BC-411 and HO-400 are equipment processes crushed tile known as "grog" and BC-001 and BC-002 are chunks of clay, similar to stone rather than fine clay

e- The source requested that the Emission Factors for units BC-101, BC-102, BC-202, BC-204, BC-501, BC-011, HO-100, HO-200 and HO-500 be changed from 0.000048 to 0.0021, this emission factor is taken from AP 42 Table 11.12.2 (2006) (Concrete Batching "Sand Transfer), which the source feels is a closer emission factor to these units. IDEM approves.
These conveyors and hoppers are similar to concrete batching because the material is handled in batches. Sand transfer is the "fines" of the concrete processing.

e- The source requested that the Emission Factors for unit BN-208 be changed from 0.000048 to 0.0032 , this emission factor is taken from AP 42 Table 11.26-1 (1995) (Talc Processing "ground talc storage bin loading with fabric filter" lb/ton by multiplying 0.0016 by 2, which the source feels is a closer emission factor to these units. IDEM approves

e- The emission factor for SH-001 and CR-410 is taken from AP42, Table 11.19.2-2 (1995)

METHODOLOGY

Uncontrolled Potential Emissions (ton/yr) = maximum process throughput (ton/hr) * emissions factor (lb/hr) * 8760 (hr/yr) *(1 tons/2000)

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

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Heat Input Capacity	HHV	Potential Throughput
MMBtu/hr	mmBtu / mmscf	MMCF/yr
10.71	1020	91.98

UNIT	MMBtu/hr
Furnace	0.15
4 Mounted Space heaters	0.56
2 Process Heaters	10.00
TOTAL	10.71

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	7.60	0.60	100.00 **see below	5.50	84.00
Potential Emission in tons/yr	0.09	0.35	0.35	0.03	4.60	0.25	3.86

*PM emission factor is filterable PM only. PM10/PM2.5 emission factors are filterable and condensable 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
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
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

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

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
10.71	1020	91.98

UNIT	MMBtu/hr
Furnace	0.15
4 Mounted Space heaters	0.56
2 Process Heaters	10.00
TOTAL	10.71

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.10E-03	1.20E-03	7.50E-02	1.80E+00	3.40E-03
Potential Emission in tons/yr	9.658E-05	5.519E-05	3.449E-03	0.08	1.564E-04

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.00E-04	1.10E-03	1.40E-03	3.80E-04	2.10E-03
Potential Emission in tons/yr	2.300E-05	5.059E-05	6.439E-05	1.748E-05	9.658E-05
				TOTAL HAPs	**0.09**

The five highest organic and metal HAPs emission factors are provided above.

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
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
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

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

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

	Greenhouse Gas			MMBtu/hr	mmBtu / mmscf	MMCF/yr
	CO2	CH4	N2O			
Emission Factor in lb/MMcf	120,000	2.3	2.2	10.29	1020	88.37
Potential Emission in tons/yr	5,302	0.10	0.10			
Summed Potential Emissions in tons/yr	5,303					
CO2e Total in tons/yr	5,335					

Methodology

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

Appendix A: Emission Calculations
LPG-Propane - Industrial Boilers
(Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	SO2 Emission factor = 0.10 x S
		S = Sulfur Content = 0.05 grains/100ft^3
0.45	43.08	

	Pollutant						
	PM*	PM10*	PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.2	0.7	0.7	0.01	13.0	1.0	7.5
				(0.10S)		**TOC value	
Potential Emission in tons/yr	4.31E-03	1.51E-02	1.51E-02	1.08E-04	0.28	2.15E-02	0.16

*PM emission factor is filterable PM only. PM10/PM2.5 emission factors are filterable and condensable combined
**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
(Source - AP-42 (Supplement B 10/96) page 1.5-1)
Potential throughput (Kgals/year) = Heat Input Capacity (MMBtu/hr) * 8760 hrs/yr *1 Kgal per 1000 gallons * 1 gal per 0.0915 MMBtu

Appendix A: Emission Calculations
LPG-Propane - Industrial Boilers
(Heat input capacity: > 10 MMBtu/hr and < 100 MMBtu/hr)
Greenhouse Gas

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year
0.45	43.08

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/kgal	12,500	0.2	0.9
Potential Emission in tons/yr	269	0.00	0.02
Summed Potential Emissions in tons/yr	269		
CO2e Total in tons/yr	275		

Methodology

The CO2 Emission Factor for Propane is 12500.

Emission Factors are from AP 42 (7/08), Table 1.5-1 (SCC #1-02-010-02)

Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

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

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations

Company Name: Unimin Corporation - Huntingburg Facility
Address City IN Zip: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit No: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Uncontrolled

Material	Density of solvent (per year)	VOC Content (%)	Maximum Material (gal/year)	VOC (tons/year)
Parts Washer	6.20	100.00%	20.00	0.06

Methodology

VOC (tons/year) = Usage * Density (lbs/year) / 1 ton/2000 lbs

Emission factors were obtained from the Material Safety Data Sheet

Company Name: Unimin Corp - Huntingburg Facility
Source Address: 1405 Industrial Park Dr, Huntingburg, Indiana 47542
Permit Number: M037-30155-00062
Reviewer: Marcia Earl
Date: February 2011

Paved Roads at Industrial Site
The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Raw Material Trucks	6	2	12	29	348	460	0.087	1	381.6
Bulk Product Trucks	1.8	2	3.6	29	104.4	410	0.078	0.3	102
Bulk Products (pneumatic)	2	2	4	29	116	190	0.036	0.1	52.5
Bagged Products	0.6	2	1.2	29	34.8	250	0.047	0.1	20.7
Loader (loading products trucks)	1	1.8	1.8	6.5	11.7	60	0.011	0	7.5
Loader (feed productions hopper from open-air stockpiles	1	47	47	6.5	305.5	150	0.028	1.3	487.4
Loader (feed production hopper from covered stockpiles)	1	53	53	6.5	344.5	130	0.025	1.5	549.6
Vehicles	8	4	32	1	32	50	0.009	0.3	110.6
		Total	154.6		1296.9			4.7	1711.9

Average Vehicle Weight Per Trip = 8.4 tons/trip
Average Miles Per Trip = 0.03 miles/trip

Unmitigated Emission Factor, Ef = [k * (sL)^0.91 * (W)^1.02] (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	8.4	8.4	8.4	tons = average vehicle weight (provided by source)
sL =	9.7	9.7	9.7	g/m^2 = silt loading value for paved roads at iron and steel production facilities - Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E * [1 - (p/4N)] (Equation 2 from AP-42 13.2.1)
Mitigated Emission Factor, Eext = Ef * [1 - (p/4N)]
where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	0.761	0.152	0.0374	lb/mile
Mitigated Emission Factor, Eext =	0.696	0.139	0.0342	lb/mile
Dust Control Efficiency =				(pursuant to control measures outlined in fugitive dust control plan)

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Raw Material Trucks	0.15	0.03	0.01	0.13	0.03	0.01
Bulk Product Trucks	0.04	0.01	0	0.04	0.01	0
Bulk Products (pneumatic)	0.02	0	0	0.02	0	0
Bagged Products	0.01	0	0	0.01	0	0
Loader (loading products trucks)	0	0	0	0	0	0
Loader (feed productions hopper from open-air stockpiles	0.19	0.04	0.01	0.17	0.03	0.01
Loader (feed production hopper from covered stockpiles)	0.21	0.04	0.01	0.19	0.04	0.01
Vehicles	0.04	0.01	0	0.04	0.01	0
	0.65	0.13	0.03	0.60	0.12	0.03

Methodology
Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip) / [5280 ft/mile]
Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
Controlled PTE (tons/yr) = [Mitigated PTE (tons/yr)] * [1 - Dust Control Efficiency]

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

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

TO: Kevin Heckel
Unimin Corporation - Huntingburg Facility
1405 Industrial Park Dr
Huntingburg, IN 47542

DATE: December 15, 2011

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

SUBJECT: Final Decision
MSOP
037 - 30155 - 00062

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
Cynthia Jamieson (Unimin Canada, Ltd)
OAQ Permits Branch Interested Parties List

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
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Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

December 15, 2011

TO: Huntington Public Library

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

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

Applicant Name: **Unimin Corporation – Huntingburg Facility**
Permit Number: **037-30155-00062**

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

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

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 12/15/2011 Unimin Corporation - Huntingburg Facility 037-30155-00062 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Kevin Heckel Unimin Corporation - Huntingburg Facility 1405 Industrial Park Dr Huntingburg IN 47542 (Source CAATS)									
2		Andrew G. Bradley Senior VP of Operations Unimin Corporation - Huntingburg Facility 258 Elm St New Canaan CT 06840-5309 *(RO CAATS)*									
3		Huntingburg City Council and Mayors Office 508 E 4th St Huntingburg IN 47542-1319 *(Local Official)*									
4		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 *(Affected Party)*									
5		Huntingburg Public Library 419 Jackson St. Huntingburg IN 47542-1301 *(Library)*									
6		Dubois County Commissioners One Courthouse Square Jasper IN 47546 *(Local Official)*									
7		DuBois County Health Department 1187 S St. Charles Street Jasper IN 47546 *(Health Department)*									
8		Mr. John Blair 800 Adams Ave Evansville IN 47713 *(Affected Party)*									
9		Cynthia Jamieson Unimin Canada, Ltd 13-637 The Queensway Peterborough ON K9J-7J6 *(Consultant)*									
10											
11											
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