



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: June 25, 2008

RE: Unimin Corporation / 029-26657-00022

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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 from 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-AM.dot12/3/07



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June 25, 2008

Ms. Cynthia Jamieson
Unimin Corporation
258 Elm Street
New Canaan, CT 06840-0370

Re: 029-26657-00022
First Administrative Amendment to
F029-15387-00022

Dear Ms. Jamieson:

Unimin Corporation was issued a Federally Enforceable State Operating Permit (FESOP) No. F029-15387-00022 on October 9, 2007, for a stationary olivine processing facility located at 137 Franklin Street, Aurora, Indiana 47001. On June 13, 2008, the Office of Air Quality (OAQ) received a letter from the source requesting that the permit be updated to indicate that baghouse DC-01 has a flow rate of 9,500 actual cubic feet per minute (ACFM). The previous baghouse DC-01 was replaced in April 2008. This change to the permit is considered an administrative amendment pursuant to 326 IAC 2-8-10(a)(6), since it is a revision to descriptive information where the revision will not trigger a new applicable requirement, violate a permit term, or change the potential to emit (PTE).

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

...

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

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

- (a) One (1) drying circuit constructed in 1988 and consisting of the following units:
- (1) One (1) natural gas-fired rotary dryer, identified as DR-01, with a maximum heat input capacity of 12.6 MMBtu per hour and a maximum olivine throughput of 20 tons per hour. The dryer was manufactured prior to 1986 and installed at this location in 1988.
 - (2) One (1) belt conveyor, identified as BC-09, with a maximum throughput capacity of 3 tons of olivine per hour.
 - (3) One (1) de-duster drum, identified as DD-01, with a maximum capacity of 3 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-01. DC-01 has a grain loading of 0.0166 grains/actual standard cubic feet, an air flow rate of ~~9,300~~ **9,500** actual cubic feet per minute, and an actual collection efficiency of 99%.

...

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

(a) One (1) drying circuit constructed in 1988 and consisting of the following units:

- (1) One (1) natural gas-fired rotary dryer, identified as DR-01, with a maximum heat input capacity of 12.6 MMBtu per hour and a maximum olivine throughput of 20 tons per hour. The dryer was manufactured prior to 1986 and installed at this location in 1988.
- (2) One (1) belt conveyor, identified as BC-09, with a maximum throughput capacity of 3 tons of olivine per hour.
- (3) One (1) de-duster drum, identified as DD-01, with a maximum capacity of 3 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-01. DC-01 has a grain loading of 0.0166 grains/actual standard cubic feet, an air flow rate of ~~9,300~~ **9,500** actual cubic feet per minute, and an actual collection efficiency of 99%.

...

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

(a) All occurrences of IDEM mailing addresses have been revised to include a mail code (MC) as follows:

Asbestos Section:	MC 61-52 IGCN 1003
Compliance Branch:	MC 61-53 IGCN 1003
Permits Branch:	MC 61-53 IGCN 1003

(b) Condition C.9(g) is revised to remove the statement that the requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable, since all conditions and requirements in a FESOP are federally enforceable. Condition C.9(g) is revised as follows:

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

...

- (g) ~~Indiana Accredited~~ **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 ~~Accredited~~ **Licensed** Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

...

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

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

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jason R. Krawczyk, of my staff, at 317-234-5175 or 1-800-451-6027, and ask for extension 4-5175.

Sincerely,

Original signed by

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit

IC/JRK

cc: File - Dearborn County
Dearborn County Health Department
U.S. EPA, Region V
Air Compliance Section
Compliance Data Section
Technical Support and Modeling
Permits Administrative and Development
Billing, Licensing and Training Section



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Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

**Unimin Corporation
137 Franklin Street
Aurora, Indiana 47001**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F029-15387-00022	
Issued by/Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: October 9, 2007 Expiration Date: October 9, 2012

First Administrative Amendment No.: F029-26657-00022	
Issued By: Original signed by Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: June 25, 2008 Expiration Date: October 9, 2012

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary olivine processing facility.

Authorized Individual:	Vice President
Source Address:	137 Franklin Street, Aurora, Indiana 47001
Mailing Address:	P.O. Box 370, Aurora, Indiana 47001-0370
General Source Phone Number:	(812) 926-0462
SIC Code:	3295
County Location:	Dearborn
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

(a) One (1) drying circuit constructed in 1988 and consisting of the following units:

- (1) One (1) natural gas-fired rotary dryer, identified as DR-01, with a maximum heat input capacity of 12.6 MMBtu per hour and a maximum olivine throughput of 20 tons per hour. The dryer was manufactured prior to 1986 and installed at this location in 1988.
- (2) One (1) belt conveyor, identified as BC-09, with a maximum throughput capacity of 3 tons of olivine per hour.
- (3) One (1) de-duster drum, identified as DD-01, with a maximum capacity of 3 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-01. DC-01 has a grain loading of 0.0166 grains/actual standard cubic feet, an air flow rate of 9,500 actual cubic feet per minute, and an actual collection efficiency of 99%.

(b) One (1) screening and intermediate storage circuit constructed in 1988 and consisting of the following units:

- (1) One (1) crusher, identified as CR-01, with a maximum capacity of 20 tons of olivine per hour.
- (2) Six (6) belt conveyors, identified as BC-02, BC-03, BC-04, BC-05, BC-06, and BC-11. BC-02, BC-03 and BC-06 each have a maximum capacity of 20 tons of olivine per hour. BC-04 and BC-11 each have a maximum capacity of 10 tons of olivine per hour. BC-05 has a maximum capacity of 15 tons of olivine per hour.

- (3) Four (4) bucket elevators, identified as BE-01, BE-03, BE-04, and BE-07, having a maximum capacity of 20, 15, 5, and 60 tons of olivine per hour, respectively.
- (4) Two (2) storage bins, identified as BN-10 and BN-11, with a maximum capacity of 13 and 10 tons of olivine per hour, respectively.
- (5) Two (2) vibratory screens, identified as VS-01 and VS-02, each with a maximum capacity of 20 tons of olivine per hour.
- (6) One (1) coarse paper bagging unit, identified as BA-05, with a maximum capacity of 5 tons per hour.

BN-10 and BC-05 are controlled by dust collector DC-06. DC-06 has an outlet grain loading of 0.02 grains per dry standard cubic foot and an air flow rate of 1,500 cubic feet per minute. All other units are controlled by baghouse DC-02, which has a grain loading of 0.0137 grains/actual standard cubic feet, an air flow rate of 9,700 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (c) One (1) sand sizing circuit constructed in 1988 and consisting of the following units:

- (1) One (1) elevator, identified as BE-02, with a maximum capacity of 15 tons of sand per hour.
- (2) One (1) storage bin, identified as BN-08, with a maximum capacity of 11 tons of olivine per hour.
- (3) One (1) drop out bin, identified as BN-12, with a maximum capacity of 5 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-03. DC-03 has an air flow rate of 3,500 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (d) One (1) bagging and bulk loadout process constructed in 1988 and consisting of the following units:

- (1) Four (4) belt conveyors, identified as BC-07, BC-08, BC-12, and BC-13, having a maximum capacity of 60, 30, 10 and 20 tons of olivine per hour, respectively.
- (2) Three (3) bucket elevators, identified as BE-05, BE-06, and BE-08 with a maximum capacity of 60, 3, and 40 tons of olivine per hour, respectively.
- (3) Ten (10) storage bins, identified as BN-01, BN-02, BN-03, BN-04, BN-05, BN-06, BN-07, BN-14, BN-15 (constructed in 2003) and BN-16. Storage bins BN-02, BN-04, BN-05, and BN-06 each have a maximum capacity of 11 tons of olivine per hour. Storage bins BN-14, BN-15 and BN16 each have a maximum capacity of 40 tons of olivine per hour. Storage bins BN-01, BN-03, and BN-07 have a maximum capacity of 10, 5, and 1 tons of olivine per hour, respectively.
- (4) Two (2) bagger surge bins, identified as SB-01 and SB-02, each with a maximum capacity of 30 tons of olivine per hour.
- (5) Two (2) truck loadouts, identified as LS-01 and LS-03, with a maximum capacity of 60 tons of olivine per hour and 5 tons of olivine per hour, respectively.
- (6) One (1) paper/bulk sack bagger and one (1) paper bagger, identified BA-01/BA-11 and BA-02 respectively, each with a maximum capacity of 9 tons per hour.

- (7) Two (2) vibratory screens, identified as VS-04 and VS-05, having a maximum capacity of 9 and 10 tons per hour of olivine, respectively.

These units are controlled by one (1) baghouse, identified as DC-04. DC-04 has an air flow rate of 1,200 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (e) One (1) fines circuit constructed in 1988 and consisting of the following units:
- (1) One (1) bin, identified as BN-13, with a maximum capacity of 5 tons of olivine per hour.
 - (2) One paper/bulk sack bagger, identified as BA-03/BA-13, with a maximum capacity of 5 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-05. DC-05 has an air flow rate of 750 actual cubic feet per minute, and an actual collection efficiency of 99%.

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

This stationary source also includes the following insignificant activities:

- (a) One (1) natural gas-fired space heater with a maximum heat input capacity of 0.35 MMBtu per hour.
- (b) Combustion source flame used for safety purging on startup.
- (c) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (d) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15 mmHg; or 0.3 psi measured at 38 degrees C; or
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mmHg; or 0.1 psi measured at 20 degrees C,the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (e) Maintenance activities including: grinding machine, brazing equipment, cutting torches, and welding equipment.
- (f) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (g) Paved and unpaved roads and parking lots with public access [326 IAC 6-5]
- (h) Air dryer blowdown.
- (i) One (1) emergency portable gasoline pump.
- (j) One (1) compressor dryer.
- (k) One (1) dry screening quality control laboratory.

- (l) Activities with emissions equal to or less than 5 pounds per hour of particulate matter:
 - (1) Two (2) loadout spouts, identified as LS-04 and LS-05, each having a maximum capacity of 60 tons of olivine per hour. [326 IAC 6.5-1-2]
 - (2) One (1) plant feed hopper, identified as HO-01, with a maximum capacity of 20 tons of olivine. [326 IAC 6.5-1-2]
 - (3) Four (4) waste totes, identified as HO-02, HO-03, HO-04, and HO-05, each with a maximum capacity of 1 ton. [326 IAC 6.5-1-2]
 - (4) One (1) coarse truck loadout/sack, identified as LS-02/BA-12, with a maximum capacity of 60 tons per hour. [326 IAC 6.5-1-2]
 - (5) Two (2) coarse sack baggers, identified as BA-14 and BA-15, having a maximum capacity of 25 and 9 tons per hour, respectively. [326 IAC 6.5-1-2]
 - (6) One (1) feeder conveyor and one (1) belt conveyor, identified as FE-01 and BC-01, respectively, each having a maximum capacity of 20 tons of olivine per hour. [326 IAC 6.5-1-2]
 - (7) One (1) storage bin, identified as BN-09, having a maximum capacity of 10 tons of olivine per hour. [326 IAC 6.5-1-2]

- (m) One (1) diesel storage tank, with a maximum capacity of 300 gallons, constructed in 2003.

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

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

SECTION B GENERAL CONDITIONS

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

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

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

- (a) This permit, F029-15387-00022, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall 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
MC 61-53 IGCN 1003
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(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(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may

require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

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

- (a) All terms and conditions of permits established prior to F029-15387-00022 and issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

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

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

Indiana Department of Environmental Management

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

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

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

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
MC 61-53 IGCN 1003
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

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

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

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

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

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

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

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

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

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

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan included as Appendix A to this permit.

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

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

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
MC 61-52 IGCN 1003
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.

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

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

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The ERP does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

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

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

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
MC 61-53 IGCN 1003
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) 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.

Stratospheric Ozone Protection

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

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

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) One (1) drying circuit constructed in 1988 and consisting of the following units:
- (1) One (1) natural gas-fired rotary dryer, identified as DR-01, with a maximum heat input capacity of 12.6 MMBtu per hour and a maximum olivine throughput of 20 tons per hour. The dryer was manufactured prior to 1986 and installed at this location in 1988.
 - (2) One (1) belt conveyor, identified as BC-09, with a maximum throughput capacity of 3 tons of olivine per hour.
 - (3) One (1) de-duster drum, identified as DD-01, with a maximum capacity of 3 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-01. DC-01 has a grain loading of 0.0166 grains/actual standard cubic feet, an air flow rate of 9,500 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (b) One (1) screening and intermediate storage circuit constructed in 1988 and consisting of the following units:
- (1) One (1) crusher, identified as CR-01, with a maximum capacity of 20 tons of olivine per hour.
 - (2) Six (6) belt conveyors, identified as BC-02, BC-03, BC-04, BC-05, BC-06, and BC-11. BC-02, BC-03 and BC-06 each have a maximum capacity of 20 tons of olivine per hour. BC-04 and BC-11 each have a maximum capacity of 10 tons of olivine per hour. BC-05 has a maximum capacity of 15 tons of olivine per hour.
 - (3) Four (4) bucket elevators, identified as BE-01, BE-03, BE-04, and BE-07, having a maximum capacity of 20, 15, 5, and 60 tons of olivine per hour, respectively.
 - (4) Two (2) storage bins, identified as BN-10 and BN-11, with a maximum capacity of 13 and 10 tons of olivine per hour, respectively.
 - (5) Two (2) vibratory screens, identified as VS-01 and VS-02, each with a maximum capacity of 20 tons of olivine per hour.
 - (6) One (1) coarse paper bagging unit, identified as BA-05, with a maximum capacity of 5 tons per hour.

BN-10 and BC-05 are controlled by dust collector DC-06. DC-06 has an outlet grain loading of 0.02 grains per dry standard cubic foot and an air flow rate of 1,500 cubic feet per minute. All other units are controlled by baghouse DC-02, which has a grain loading of 0.0137 grains/actual standard cubic feet, an air flow rate of 9,700 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (c) One (1) sand sizing circuit constructed in 1988 and consisting of the following units:
- (1) One (1) elevator, identified as BE-02, with a maximum capacity of 15 tons of sand per hour.

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

- (2) One (1) storage bin, identified as BN-08, with a maximum capacity of 11 tons of olivine per hour.
- (3) One (1) drop out bin, identified as BN-12, with a maximum capacity of 5 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-03. DC-03 has an air flow rate of 3,500 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (d) One (1) bagging and bulk loadout process constructed in 1988 and consisting of the following units:

- (1) Four (4) belt conveyors, identified as BC-07, BC-08, BC-12, and BC-13, having a maximum capacity of 60, 30, 10 and 20 tons of olivine per hour, respectively.
- (2) Three (3) bucket elevators, identified as BE-05, BE-06, and BE-08 with a maximum capacity of 60, 3, and 40 tons of olivine per hour, respectively.
- (3) Ten (10) storage bins, identified as BN-01, BN-02, BN-03, BN-04, BN-05, BN-06, BN-07, BN-14, BN-15 (constructed in 2003) and BN-16. Storage bins BN-02, BN-04, BN-05, and BN-06 each have a maximum capacity of 11 tons of olivine per hour. Storage bins BN-14, BN-15 and BN16 each have a maximum capacity of 40 tons of olivine per hour. Storage bins BN-01, BN-03, and BN-07 have a maximum capacity of 10, 5, and 1 tons of olivine per hour, respectively.
- (4) Two (2) bagger surge bins, identified as SB-01 and SB-02, each with a maximum capacity of 30 tons of olivine per hour.
- (5) Two (2) truck loadouts, identified as LS-01 and LS-03, with a maximum capacity of 60 tons of olivine per hour and 5 tons of olivine per hour, respectively.
- (6) One (1) paper/bulk sack bagger and one (1) paper bagger, identified BA-01/BA-11 and BA-02 respectively, each with a maximum capacity of 9 tons per hour.
- (7) Two (2) vibratory screens, identified as VS-04 and VS-05, having a maximum capacity of 9 and 10 tons per hour of olivine, respectively.

These units are controlled by one (1) baghouse, identified as DC-04. DC-04 has an air flow rate of 1,200 actual cubic feet per minute, and an actual collection efficiency of 99%.

- (e) One (1) fines circuit constructed in 1988 and consisting of the following units:

- (1) One (1) bin, identified as BN-13, with a maximum capacity of 5 tons of olivine per hour.
- (2) One paper/bulk sack bagger, identified as BA-03/BA-13, with a maximum capacity of 5 tons of olivine per hour.

These units are controlled by one (1) baghouse, identified as DC-05. DC-05 has an air flow rate of 750 actual cubic feet per minute, and an actual collection efficiency of 99%.

Insignificant Activities:

- (I) Activities with emissions equal to or less than 5 pounds per hour of particulate matter:
 - (1) Two (2) loadout spouts, identified as LS-04 and LS-05, each having a maximum capacity of 60 tons of olivine per hour. [326 IAC 6.5-1-2]
 - (2) One (1) plant feed hopper, identified as HO-01, with a maximum capacity of 20 tons of olivine. [326 IAC 6.5-1-2]
 - (3) Four (4) waste totes, identified as HO-02, HO-03, HO-04, and HO-05, each with a maximum capacity of 1 ton. [326 IAC 6.5-1-2]
 - (4) One (1) coarse truck loadout/sack, identified as LS-02/BA-12, with a maximum capacity of 60 tons per hour. [326 IAC 6.5-1-2]
 - (5) Two (2) coarse sack baggers, identified as BA-14 and BA-15, having a maximum capacity of 25 and 9 tons per hour, respectively. [326 IAC 6.5-1-2]
 - (6) One (1) feeder conveyor and one (1) belt conveyor, identified as FE-01 and BC-01, respectively, each having a maximum capacity of 20 tons of olivine per hour. [326 IAC 6.5-1-2]
 - (7) One (1) storage bin, identified as BN-09, having a maximum capacity of 10 tons of olivine per hour. [326 IAC 6.5-1-2]

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

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

D.1.1 PSD Minor Limits for PM [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable, the emissions of PM shall be limited as follows:

Facility	Baghouse	PM Emission Limit (lbs/hour)
Drying Circuit	DC-01	2.98
Screening and Intermediate Storage Circuit	DC-02	2.73
	DC-06	1.24
Sand Sizing Circuit	DC-03	0.5
Bagging and Bulk Loadout	DC-04	0.37
Fines Circuit	DC-05	0.37

Compliance with these limitations ensures that the PM emissions from the entire source shall not exceed 250 tons per twelve (12) consecutive month period and makes the source minor for 326 IAC 2-2 (Prevention of Significant Deterioration).

D.1.2 FESOP Limits for PM10 [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4, the emissions of PM-10 shall be limited as follows:

Facility	Baghouse	PM10 Emission Limit (lbs/hour)
Drying Circuit	DC-01	2.98
Screening and Intermediate Storage Circuit	DC-02	2.73
	DC-06	1.24
Sand Sizing Circuit	DC-03	0.5
Bagging and Bulk Loadout	DC-04	0.37
Fines Circuit	DC-05	0.37

Compliance with these limitations ensures that the PM10 emissions from the entire source do not exceed 100 tons per twelve (12) consecutive month period and makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

D.1.3 Particulate Emission Limits [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), the particulate matter emissions from each emission unit at this source, including the insignificant activities, shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf)).

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

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.1.5 Particulate Control

- (a) In order to comply with Condition D.1.1, D.1.2 and D.1.3, the baghouses used to control particulate emissions shall be in operation and control emissions from the drying circuit, screening and intermediate storage circuit, sand sizing circuit, bagging and bulk loadout, and fines circuit 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.

D.1.6 Testing Requirements [326 IAC 2-1.1-11]

Within 180 days of issuance of this permit, the Permittee shall perform PM and PM10 testing of the baghouses controlling emissions from the drying circuit, screening and intermediate storage circuit, sand sizing circuit, bagging and bulk loadout, and fines circuit using methods approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C- Performance Testing.

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

D.1.7 Visible Emissions Notations

- (a) Visible emission notations of the baghouse stack exhausts shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the drying circuit, screening and intermediate storage circuit, sand sizing circuit, bagging and bulk loadout, and fines circuit at least once per shift when these processes are in operation. When for any one reading, the pressure drop across a baghouse is outside the normal range specified in the following table or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and Exceedances.

Baghouse I.D	Pressure Drop Range (inches of water)
DC-01	1.0 -10.0
DC-02	0.4 – 6.0
DC-03	0.4 – 6.0
DC-04	0.4 – 6.0
DC-05	0.4 – 6.0
DC-06	0.4 – 6.0

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

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

D.1.9 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the drying circuit, screening and intermediate storage circuit, sand sizing circuit, bagging and bulk loadout, and fines circuit. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.1.10 Broken or Failed Bag Detection

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

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

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

D.1.11 Record Keeping Requirement

- (a) To document compliance with Condition D.1.7, the Permittee shall maintain records of the once per shift visible emission notations of the baghouse stack exhausts. The Permittee shall include in its records when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.1.8, the Permittee shall maintain records of the once per shift pressure drop for each baghouse. The Permittee shall include in its records when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.1.9, the Permittee shall maintain records of the results of the inspections required under Condition D.1.9.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Unimin Corporation
Source Address: 137 Franklin Street, Aurora, Indiana 47001
Mailing Address: P.O. Box 370, Aurora, Indiana 47001-0370
FESOP Permit No.: F029-15387-00022

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)_____
- Report (specify)_____
- Notification (specify)_____
- Affidavit (specify)_____
- Other (specify)_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Unimin Corporation
Source Address: 137 Franklin Street, Aurora, Indiana 47001
Mailing Address: P.O. Box 370, Aurora, Indiana 47001-0370
FESOP Permit No.: F029-15387-00022

This form consists of 2 pages

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- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|--|

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

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Unimin Corporation
Source Address: 137 Franklin Street, Aurora, Indiana 47001
Mailing Address: P.O. Box 370, Aurora, Indiana 47001-0370
FESOP Permit No.: F029-15387-00022

Months: _____ to _____ Year: _____

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Appendix A

Unimin Corporation – Aurora Facility Fugitive Emissions Dust Control Plan

Per 326 IAC 6-5-1(b), the Aurora facility is required to prepare a control plan for fugitive particulate matter emissions. The contents of the Dust 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). Per 326 IAC 6-5-8, the Control Plan will be updated at the time of reapplication for Aurora’s operating permit.

(1) Source: Unimin Corporation
 Aurora Olivine Processing Facility
 P.O. Box 370
 137 Franklin Street
 Aurora, IN 47001-0370

(2) Owner/Operator Responsible for the Execution of the Control Plan:

Same as above

Contact: Aurora Plant Manager Tel: 812-926-0462 Fax: 812-926-0913

(3) Identification of Potential Emission Sources

Fugitive particulate matter emissions are generated from multiple sources at the Aurora plant site. Per 326 IAC 6-5-4, the emission sources are identified as the following emission points:

- (a) Plant yard, internal roads and parking lots;
- (b) Outdoor raw material (olivine) aggregate stockpiles;
- (c) Outdoor Olivine Fines Pile;
- (d) Outdoor Contractor Fill Pile;
- (e) Outdoor conveying and transfer of aggregate material;
- (f) Transportation of aggregate material by truck, front end loader, or similar vehicles;
- (g) Loadout of paper bags, bulk totes, and bulk trucks;
- (h) Solid waste handling;
- (i) Material handling operations;
- (j) Escape through building opening such as doors, windows, powered or unpowered ventilators, roof monitors, other than a stack.

(4) Site map

A site map is provided at the end of this document.

(5) Vehicular Activity

Vehicles	Trips/hour	Speed (mph)	Distance (Miles per round trip)	Gross/Tare Weights (Tons)	No. of wheels
Tractor Trailer	<4	5	~ 0.2	40/15	18
Tandem Truck	<6	5	~ 0.2	35/13	14
Front-end Loader	~10	5	~ 400 feet	18/12	4
Forklifts	~10	5	~ 400 feet	unknown	4
Plant vehicle	<1	5	0.2	0.5/0.5	4

(6) Type and Quantity of material handled

Raw material stockpiles consist of olivine aggregate, which is an inert mineral. The material can

be dried, crushed, sized and shipped as bulk and/or bagged products, depending on customer specifications. The plant can process a maximum of 60 tons of olivine per hour.

(7) Equipment used to maintain aggregate piles

Outdoor stockpiles are generated by tandem truck dumping. A front-end loader is used for conveying raw material to the processing equipment. In addition, the loader is used to recycle processed material back to the stockpiles. Forklifts are used for conveying/loading bagged material and transferring tote-hoppers.

The facility will utilize a Municipal street cleaner until Unimin purchases a sweeper that will consist of a front-end loader equipped with an angled spinning broom and water tank.

(8) Description of Control Measure

Described below under CONTROL MEASURES.

(9) Specification of dust suppressant material

Water is the primary dust suppressant. A generic chemical dust suppressant shall be applied on the contractor fill pile.

(10) Specifications of the particulate matter collection equipment

Specifications of the particulate matter collection equipment are identified in the IDEM air permit, which may be amended from time to time.

(11) Schedule of Compliance

(12) Recordkeeping

Unimin will maintain records for three years, which document applicable control measures and activities to be implemented for this Dust Control Plan. Most of the maintenance records will be maintained on the electronic database and can be recalled at the request of an inspector. Records of the rental of the street cleaners are maintained in the purchasing files.

CONTROL MEASURES

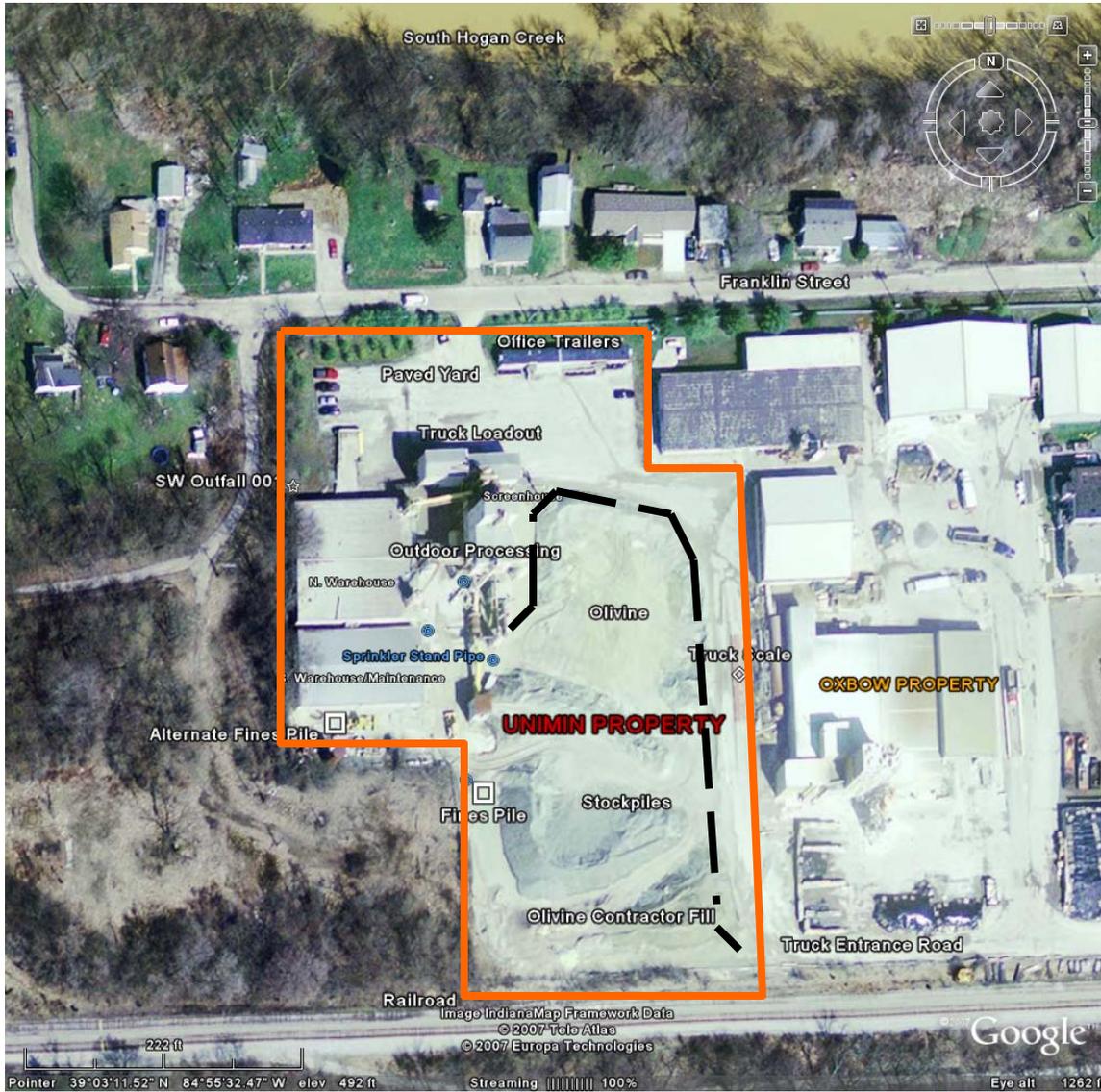
Control measures for fugitive particulate matter emissions generated from the emission points listed in Item 3, are identified below:

Process	Required Physical and Operational Controls	Implementation Schedule
<p>Internal Roads, Plant Yard, and Parking Lots</p> <p>Description: The plant yard (excluding stockpile area), internal roads, and parking lots are paved.</p>	<ol style="list-style-type: none"> 1. The plant yard, internal roads, and parking lots shall be paved. 2. Paved areas shall be cleaned by sweeping, shovelling, and/or water hose. 3. Paved areas shall be cleaned using a sweeper. If excessive dust is present, the roads shall be misted with water prior to sweeping. 	<ul style="list-style-type: none"> • Sweeping, shovelling and washdowns shall occur, as needed (excluding measurable rain event or winter weather conditions) • The paved areas shall be swept as needed and at least once a week.
<p>Outdoor Raw Material (Olivine) Aggregate Stockpiles</p> <p>Description: Olivine sand is stored outdoors on bare ground. The stockpiles are over 30-foot high and cover an area roughly 200-foot wide by 400-foot long. The pile is accessed daily as feed to the plant. Processed material that is recycled into the piles is blended or buried in the raw material.</p>	<ol style="list-style-type: none"> 1. The perimeter of the stockpiles shall be contained by concrete blocks at least up to 32 inches in height, as indicated on the attached site plan. 2. At least four portable sprinkler heads shall be distributed across the piles to spray water to suppress dust. 3. Unimin shall investigate the transfer of excess processed material to a silo instead recycling it back to the stockpiles to minimize exposure during handling 	<ul style="list-style-type: none"> • The sprinklers shall be operated as needed but not less than every eight hours (excluding measurable rain events or winter weather conditions). The sprinklers shall be relocated as needed to provide sufficient dust control across all the stockpiles. Sprinklers shall be operated regardless if the plant is operating (i.e. down days, holidays, night time, etc.)

Process	Required Physical and Operational Controls	Implementation Schedule
<p>Outdoor Olivine Fines Pile Description: Dust collector rejects (fines) are emptied into 1-ton portable hoppers for transport via forklift to a three-sided bunker, where it is later transferred to the Contractor Fill Pile.</p>	<ol style="list-style-type: none"> 1. Where applicable, the hoppers shall be covered when filled. 2. The hoppers shall be slowly dumped. Material free fall be minimized. The operators shall be trained to slowly dump the hoppers and minimize material free fall. 3. Water shall be applied to the Fines Pile to suppress dust. 4. Unimin shall re-locate the sprinkler head from a side position to one that overhangs the pile to ensure better distribution of water for dust suppression. 	<ul style="list-style-type: none"> • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually. • The sprinklers shall be operated during addition or removal of material from the Fines Pile or if the material begins to dry out (excluding measurable rain events or winter weather conditions).
<p>Outdoors Contractor Fill Piles Description: Contractor fill grade material is stockpiled at the south end of the property. Commercial dump trucks are loaded and shipped, on demand, for the construction trade.</p>	<ol style="list-style-type: none"> 1. Product shall be wetted prior to placement at the Contractor Fill Pile. 2. Chemical sealants shall be applied to the contractor Fill Pile to suppress dust. 	<ul style="list-style-type: none"> • The chemical sealant shall be applied as needed, depending on the volume of material and the wetness of the season but at least with every disturbance.
<p>Outdoor conveying and transfer of aggregate material Description: Olivine from the raw material stockpile is transported via front-end loader to a feed hopper, which is a three-sided roofed structure. Outdoor conveying equipment is covered with hoods or enclosures.</p>	<ol style="list-style-type: none"> 1. The operators shall be trained to reduce the free fall of aggregate during material transfer. When discharging a silo or bin for recycling, the front-end bucket shall be placed immediately under the loadout spout and lowered slowly until it is full. When placing material into the stockpile, the bucket shall be placed against the ground and then rolled forward until empty, so the bucket forms a makeshift hood. 2. Front-end loader operators have been trained to maintain low-speeds, below five (5) miles per hour, to reduce airborne dust. 3. On windy days, activities shall be curtailed or loaded from the backside of the pile. 4. Outdoor conveying equipment shall be covered with hoods or enclosures. 	<ul style="list-style-type: none"> • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually. • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually.

Process	Required Physical and Operational Controls	Implementation Schedule
<p>Transportation of aggregate material by truck, front-end loader or similar vehicles Description: Dump trucks bring in the raw material and end-load it into the olivine raw material stockpiles. A front-end loader conveys the raw material to the process; recycles excess product back into the stockpiles; and transfers material from the fines pile to the Contractor Fill Pile. Forklifts move bagged material to storage or trucks for shipment. Forklifts move hoppers filled with dust collector rejects to the fines pile. On-site transport distances are short (~200 feet). Tractor-trailers haul bags, totes and bulk material to market.</p>	<ol style="list-style-type: none"> 1. Vehicles shall maintain posted speeds of 5 miles per hour on the truck entrance road. There shall be speed bumps on the truck entrance road. 2. Vehicle speeds on-site are restricted by tight turns and short hauls. Front-end loader operators shall be trained to maintain low-speeds. 3. Trucks carrying product entering and leaving the site shall be tarped. 	<ul style="list-style-type: none"> • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually.
<p>Loadout of paper bags, bulk totes, and bulk trucks Description: Product is shipped as palletted paper bags, bulk totes, and bulk trucks. Bulk totes are filled outdoors. Paper bags are filled inside the warehouse while utilizing baghouses, then palletted and wrapped.</p>	<ol style="list-style-type: none"> 1. The bags shall be lifted during loading to minimize the free fall distance of material and exposure to wind. 2. The bulk truck loadout sidewalls shall extend to 6" above the pavement. The bulk truck loadout ends shall be curtained. 3. An overhead door shall be installed to allow equipment traffic through the loadout sidewalls. 4. Operational controls, such as closing bulk product truck hatches, shall be used as necessary. 	<ul style="list-style-type: none"> • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually.

Process	Required Physical and Operational Controls	Implementation Schedule
<p>Solid Waste Handling Description: There are no "tailings" generated at the Aurora facility. Off-spec mineral product is recycled into the plant process wherever feasible. On the rare occasion when surplus mineral product is not marketable, it is hauled to a licensed waste disposal site. Solid wastes consist primarily of office and plant trash.</p>	<ol style="list-style-type: none"> 1. Trash shall be placed in designated waste bins and hauled off-site by disposal contractors. 2. Plant-specific Policy/Procedures shall be followed to properly manage plant wastes. 	<ul style="list-style-type: none"> • Trash shall be removed on regularly scheduled pickups. • The 'Plant Waste Disposal, Landfills and Trespass Dumps' Policy/Procedure and the 'Plant Surplus Equipment and Boneyard Management' Policy/Procedures shall be reviewed annually and updated, as necessary.
<p>Material handling operations Description: The industrial activities include industrial olivine storage, processing, handling, and shipping. Olivine processing includes drying, crushing, screening and classification to obtain different sized olivine products.</p>	<p>Drying, crushing, screening and loadout activities are directed to baghouses.</p>	<ul style="list-style-type: none"> • Baghouses shall be maintained as per the FESOP air permit.
<p>Escape through building opening such as doors, windows, powered or unpowered ventilators, roof monitors, other than a stack Description: There are two process buildings with mechanical vents and openings (North Warehouse and Screenhouse). The North Warehouse contains three baggers in addition to product inventory. The baggers all utilize dust collectors. The North Warehouse building vent is for ventilation purposes. The Screenhouse has two building vents for ventilation purposes. All process equipment in the Screenhouse also reports to dust collectors, so pollutants are not expected to discharge through the openings.</p>	<ol style="list-style-type: none"> 1. Unimin shall follow an equipment maintenance program (Qqest) to ensure proper maintenance of the process equipment and dust collection systems. 2. Good housekeeping shall be employed to reduce indoor spillage and nuisance dust, which could escape through doors and vents. 	<ul style="list-style-type: none"> • First Training shall occur within 30 days of hire or issuance of 029-15387-00022. Training refreshers shall occur at a minimum annually. Training refreshers shall occur at a minimum annually.



North Arrow (as marked in the top right hand corner of the Google aerial)

Scale (as marked in the bottom left hand corner of the Google aerial)

LEGEND

Property line – solid orange line

Line of concrete blocks – dashed black line

Sprinkler stand pipes for sprinkler hose hook ups - blue circles

Note: The positions of the property lines and the line of concrete blocks around the stockpile perimeter have been approximated, then superimposed on the aerial view within the limits of the software program.