



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MAHONING COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 02-22087

Fac ID: 0250001002

DATE: 8/31/2006

Suptropolis Mining Co
Gary Schaefer
PO Box 217 10900 South Ave
North Lima, OH 44452-0217

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

NEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 8/31/2006
Effective Date: 8/31/2006**

FINAL PERMIT TO INSTALL 02-22087

Application Number: 02-22087
Facility ID: 0250001002
Permit Fee: **\$3750**
Name of Facility: Suptropolis Mining Co
Person to Contact: Gary Schaefer
Address: PO Box 217 10900 South Ave
North Lima, OH 44452-0217

Location of proposed air contaminant source(s) [emissions unit(s)]:

**Garfield Rd
Petersburg, Ohio**

Description of proposed emissions unit(s):

Installation of updated equipment for limestone crushing and screening, modification of roadways and storage piles.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

Emissions Unit ID: F001

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	428.9
NOx	30.0
CO	7.2

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F001) - Aggregate Processing Plant

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	<p>The permittee shall comply with the visible particulate emissions limitations pursuant to Sections A.2.b, A.2.c, and A.2.d.</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.2.d through A.2.f).</p>
OAC rule 3745-31-02(A)(2)	<p>This facility shall not produce more than 2,740,400 tons of aggregate per year (see section B.2).</p> <p>This facility shall not use more than 64 tons of dynamite gelatin and 812 tons of ammonium nitrate and fuel oil (ANFO) per year (see section B.3).</p> <p>Particulate emissions (PE) shall not exceed 25.6 tons per year (TPY).</p> <p>Carbon monoxide (CO) emissions from detonating explosives shall not exceed 30.0 TPY.</p> <p>Oxides of Nitrogen (NOx) emissions from detonating explosives shall not exceed 7.2 TPY.</p>
OAC rule 3745-17-07(B)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.

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40 CFR, Part 60, Subpart OOO	The particulate emission limitations in this regulation are equivalent to those established in OAC rule 3745-31-05(A)(3).
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2. Additional Terms and Conditions

- 2.a** The permittee shall employ best available control measures for the material processing/handling operations identified below, for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the inherent moisture content of the materials processed/handled is at a level which is more than sufficient to comply with all applicable requirements. If at any time the moisture content is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

<u>material processing/handling operation</u>	<u>control measure(s)</u>
loading	reduced drop height, water application, if needed
crushing and screening	water application, if needed
transfer/conveying	partial enclosure, water application, if needed

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity. Visible emissions from the following material processing equipment are subject to this term:

Emissions Unit ID: F001

Emissions Point	MK ¹	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
1520 impactor station (HSI)	18	secondary crusher	15%	NSPS, Subpart 000
103 VSI crusher station	24	secondary crusher	15%	NSPS, Subpart 000

¹MK relates to the Bill of Materials as found on the Flow Schematic, Drawing Number 5577-00-0002.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. [40 CFR 60.672(c)]

- 2.c** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup the permittee shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity. Visible emissions from the following material processing equipment are subject to this term:

Emissions Point	MK ¹	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
42"x700' xfer conveyor	1	xfer pt.	10%	NSPS, Subpart 000
42"x150' radial stacker	2	xfer pt.	10%	NSPS, Subpart 000
42"x150' radial stacker	3	xfer pt.	10%	NSPS, Subpart 000
Reclaim tunnel	4	xfer pt.	10%	NSPS, Subpart 000

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36"x375' reclaim conveyor	5	xfer pt.	10%	NSPS, Subpart 000
36"x890' transfer conveyor	6	xfer pt.	10%	NSPS, Subpart 000
36"x345' transfer conveyor	7	xfer pt.	10%	NSPS, Subpart 000
50 ton surge hopper with overflow chute	8	xfer pt.	10%	NSPS, Subpart 000
36"x205' screen feed conveyor	9	xfer pt.	10%	NSPS, Subpart 000
8'x20' scalping screen station	10	screening	10%	NSPS, Subpart 000
30"x205' transfer conveyor	14	xfer pt.	10%	NSPS, Subpart 000
36"x150' telestacker	15	xfer pt.	10%	NSPS, Subpart 000
36"x335' transfer conveyor	16	xfer pt.	10%	NSPS, Subpart 000
85 ton surge bin	17	xfer pt.	10%	NSPS, Subpart 000
48"x290' screen feed conveyor	19	xfer pt.	10%	NSPS, Subpart 000
dual 8'x20' TD dry screening station	20a	screening	10%	NSPS, Subpart 000
dual 8'x20' TD dry screening station	20b	screening	10%	NSPS, Subpart 000
36"x40' overs gathering conveyor	21	xfer pt.	10%	NSPS, Subpart 000
36"x235' recirc conveyor	22	xfer pt.	10%	NSPS, Subpart 000
85 ton surge bin	23	xfer pt.	10%	NSPS, Subpart 000
30"x35' gathering conveyor	31	xfer pt.	10%	NSPS, Subpart 000
30"x615' transfer conveyor	33	xfer pt.	10%	NSPS, Subpart 000
30"x275' bypass conveyor	34	xfer pt.	10%	NSPS, Subpart 000

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30"x275' bypass conveyor	35	xfer pt.	10%	NSPS, Subpart 000
36"x360' logwasher feed conveyor	36	xfer pt.	10%	NSPS, Subpart 000
30"x20' fines conveyor	56	xfer pt.	10%	NSPS, Subpart 000
30"x335' fines transfer conveyor	57	xfer pt.	10%	NSPS, Subpart 000
10' conveyor	58	xfer pt.	10%	NSPS, Subpart 000
conveyor	59	xfer pt.	10%	NSPS, Subpart 000

¹MK relates to the Bill of Materials as found on the Flow Schematic, Drawing Number 5577-00-0002.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. [40 CFR 60.672(b)]

- 2.d** On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the permittee shall not cause to be discharged into the atmosphere any visible emissions from wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin. Initial Method 9 performance tests are not required for wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin. Visible emissions from the following material processing equipment are subject to this term:

Emissions Point	MK¹	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit

Emissions Unit ID: F001

dual 46"x35' logwasher station	37a	xfer pt.	zero	NSPS, Subpart 000
dual 46"x35' logwasher station	37b	xfer pt.	zero	NSPS, Subpart 000
dual 6'x20' wash screen station	38a	xfer pt.	zero	NSPS, Subpart 000
dual 6'x20' wash screen station	38b	xfer pt.	zero	NSPS, Subpart 000
54"x 34' DSFMW (sand screw)	39	xfer pt.	zero	NSPS, Subpart 000
30"x340' transfer conveyor	40	xfer pt.	zero	NSPS, Subpart 000
30"x120' radial stacker	41	xfer pt.	zero	NSPS, Subpart 000
30"x40' gathering conveyor	42	xfer pt.	zero	NSPS, Subpart 000
30"x395' transfer conveyor	43	xfer pt.	zero	NSPS, Subpart 000
30"x120' radial stacker	44	xfer pt.	zero	NSPS, Subpart 000
30"x55' gathering conveyor	45	xfer pt.	zero	NSPS, Subpart 000
30"x175' transfer conveyor	46	xfer pt.	zero	NSPS, Subpart 000
30"x120' radial stacker	47	xfer pt.	zero	NSPS, Subpart 000
36"x85' gathering conveyor	48	xfer pt.	zero	NSPS, Subpart 000
36"x455' transfer conveyor	49	xfer pt.	zero	NSPS, Subpart 000
36"x150' radial stacker	50	xfer pt.	zero	NSPS, Subpart 000

¹MK relates to the Bill of Materials as found on the Flow Schematic, Drawing Number 5577-00-0002.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. [40 CFR 60.672(h) & 60.675(h)]

2.e Implementation of the above-mentioned control measure(s) in accordance with

Emissions Unit ID: **F001**

the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05 and/or 40 CFR Part 60, Subpart OOO.

- 2.f** The application and enforcement of the provisions of NSPS, as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements for 40 CFR Part 60 are also federally enforceable.

B. Operational Restrictions

1. The permittee shall operate this emissions unit in such a manner, at minimum, but not be limited to, keep sufficient moisture on aggregate processing materials, that is appropriate to minimize or eliminate visible particulate emissions of fugitive dust.
2. The maximum annual aggregate throughput for this facility shall not exceed 2,174,400 tons, as measured at the scale affixed to the reclaim tunnel located below the surge pile. This restriction is based on a voluntary restriction on throughput pursuant to OAC rule 3745-31-02(A)(2). [OAC rule 3745-31-02(A)(2)]
3. The maximum annual explosives usage rate shall not exceed 64 tons of dynamite gelatin and 812 tons of ammonium nitrate and fuel oil (ANFO) annually. This restriction is based on a voluntary restriction on throughput pursuant to OAC rule 3745-31-02(A)(2). [OAC rule 3745-31-02(A)(2)]

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C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, each aggregate processing plant operation identified in sections A.2.b and A.2.d of these terms and conditions not adequately enclosed shall be inspected daily.
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4.d shall be kept separately for each aggregate processing plant operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

5. The permittee shall maintain monthly and cumulative annual records of the amount of material processed, as measured at the scale affixed to the reclaim tunnel located below the surge pile. The data shall be kept in tons per month and total tons to date for the calendar year. [OAC rule 3745-31-02(A)(2)]
6. The permittee shall maintain monthly and cumulative annual records of the amount of explosives used. The data shall be kept in tons per month and total tons to date for the calendar year. [OAC rule 3745-31-02(A)(2)]

D. Reporting Requirements

Emissions Unit ID: **F001**

1. The permittee seeking to comply with 40 CFR Part 60 subpart OOO, paragraph 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
 - a. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - i. the rated capacity in tons per hour of the existing facility being replaced, and
 - ii. the rated capacity in tons per hour of the replacement equipment.
 - b. For a screening operation:
 - i. The total surface area of the top screen of the existing screening operation being replaced, and
 - ii. The total surface area of the top screen of the replacement screening operation.
 - c. For a conveyor belt:
 - i. The width of the existing belt being replaced, and
 - ii. The width of the replacement conveyor belt.
2. The permittee seeking to comply with 40 CFR Part 60, subpart OOO paragraph 60.670(d) shall submit the following data to
The Director of the Emission Standards and Engineering Division, (MD-13)
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711
 - a. The information described in section D.1 of these terms and conditions;
 - b. A description of the control device used to reduce particulate matter emissions from this emissions unit and a list of all other pieces of equipment controlled by the same control device; and
 - c. The estimated age of this emissions unit. [40 CFR 60.676(a)]

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3. The permittee shall submit a notification of the actual date of initial startup of each affected facility to Ohio EPA, Northeast District Office. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to Ohio EPA, Northeast District Office. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available. [40 CFR 60.676(h) & 40 CFR 60.676(i)]
4. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in sections A.2.a through A.2.d of these terms and conditions, including reports of opacity observations made using Method 9 to demonstrate compliance with section A.1 of these terms and conditions.
5. The permittee shall submit a deviation report within 30 days after a wet screening operation no longer processes saturated material. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit emission test requirements of term A.2.c and E. Likewise, a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a deviation report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in term A.2.d. The reports required pursuant to this term shall be sent to Ohio EPA, Northeast District Office. [40 CFR 60.676(g)]
6. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
7. The permittee shall submit deviation reports that identify if the annual production or explosives usage restrictions are exceeded. [OAC rule 3745-31-02(A)(2)]
8. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing of emissions unit F001 for the emission points listed in A.2.b and A.2.c pursuant to the emission limitation established in those terms for each egress point.
2. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.
3. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.
4. The following test method shall be employed to demonstrate compliance with the allowable visible emission rates:
 - a. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.
5. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.
6. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion of the tests.

Emissions Unit ID: **F001**

7. Compliance with the emission limitations specified in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
25.6 TPY of fugitive PE

Applicable Compliance Method:

The annual PE limitation was established by summing the fugitive PE rates from the crushing, screening, and transfer operations associated with this emissions unit, and then dividing by 2,000 lbs/ton. The emission rate was based on the maximum allowable facility production rate (2,740,000 TPY) and emission factors pursuant to AP-42 Chapter 11.19.2, 8/04 edition. Provided compliance is shown with the maximum annual throughput restriction and the requirements of this permit to apply best available control measures, compliance with the annual PE limitation will be assumed.

- c. Emission Limitation:
The permittee shall not cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO.

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- d. Emission Limitation:
The permittee shall not cause to be discharged into the atmosphere from any transfer point or screen any fugitive emissions which exhibit greater than 10 percent opacity.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR, Part 60, Appendix A, and the procedures in 40 CFR, Part 60, Subpart OOO.

- e. Emission Limitation:
30 TPY of fugitive CO

Applicable Compliance Method:

The annual CO limitation was established based on the maximum allowable explosives usage rate (64 tons of dynamite gelatin and 812 tons of ANFO per year) and emission factors pursuant to AP-42 Chapter 13.3, 2/80 edition (reformatted 1/95). Provided compliance is shown with the maximum annual throughput restriction and the requirements of this permit to apply best available control measures, compliance with the annual CO limitation will be assumed.

- f. Emission Limitation:
7.2 TPY of fugitive NOx

Applicable Compliance Method:

The annual NOx limitation was established based on the maximum allowable explosives usage rate (64 tons of dynamite gelatin and 812 tons of ANFO per year) and emission factors pursuant to AP-42 Chapter 13.3, 2/80 edition (reformatted 1/95). Provided compliance is shown with the maximum annual throughput restriction and the requirements of this permit to apply best available control measures, compliance with the annual NOx limitation will be assumed.

F. Miscellaneous Requirements

1. This permit-to-install (PTI) replaces PTI No. 02-15074, previously issued for this facility on July 30, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F002) - Facility-wide Roadways and Parking Areas

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	<p>Fugitive particulate emissions (PE) shall not exceed 162.1 tons per year (TPY).</p> <p>There shall be no visible PE except for three minutes during any 60-minute period from unpaved roadways.</p> <p>There shall be no visible PE except for one minute during any 60-minute period from paved roadways.</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (see sections A.I.2.a through A.I.2.f).</p>
OAC rule 3745-17-07(B)(4)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.
OAC rule 3745-17-07(B)(5)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures on all roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat all roadways and parking areas by application of chemical stabilization/dust suppressants and/or watering at sufficient

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treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for roadways and parking areas that are covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.c** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.d** Any unpaved roadway or parking area that is subsequently paved, shall be subject to these terms and conditions specific to paved roadways and parking areas.
- 2.e** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

Emissions Unit ID: F002

unpaved roadways and parking areas

minimum inspection frequency

all roads and parking areas

daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 3.d shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result

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of an inspection, was not implemented.

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.I.1 of the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emission Limitations:
162.1 TPY of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE limitation shall be determined by using the emission factor equations in Section 13.2.2, in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 12/03) for paved and unpaved roadways, respectively. Should further updates in AP-42 occur, the most current equations for paved and/or unpaved roads shall be used.

	<u>paved roads</u>	<u>unpaved roads</u>
vehicle miles traveled, miles/yr	18,060	76,755
control efficiency, %	67	67
silt content	9%	40 gr/SF

- b. Emission Limitation:
There shall be no visible PE from unpaved roadways and parking areas except for a period of time not to exceed three minutes during any 60-minute observation period and paved roadways and parking areas except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method:

If required, compliance with the visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

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F. Miscellaneous Requirements

1. This permit-to-install (PTI) replaces PTI No. 02-15074, previously issued for this facility on July 30, 2001.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (F003) - Facility-wide Material Storage Piles

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	<p>Fugitive particulate emissions (PE) shall not exceed 240 tons per year (TPY).</p> <p>There shall be no visible PE except for one minute during any 60-minute period.</p> <p>The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (see sections A.2.a through A.2.e).</p>
OAC rule 3745-17-07(B)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.
OAC rule 3745-17-08(B)	The emission limitation specified by this rule is not applicable because the facility is not located in an Appendix A area pursuant to OAC rule 3745-17-08.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to maintain minimal drop heights for stackers and front-loaders, and chemical stabilization/dust suppressants and/or watering/sprinkling systems at sufficient treatment frequencies to ensure compliance.

The operator shall avoid dragging any front-end loader bucket along the ground. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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- 2.b** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.c** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee has committed to perform one or more of the following: chemical stabilization, watering/sprinkling systems/hoses, and covering the storage piles, to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.e** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the

Emissions Unit ID: **F003**
following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
all	daily

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

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<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
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all	daily
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3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
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all	daily
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4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;

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- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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D. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emissions Limitations:
240 TPY of fugitive PE

Applicable Compliance Method:

Compliance with fugitive PE limitations shall be determined by using the emission factor equations in Sections 13.2.4 in Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume 1 (revised 1/95), for load-in operations, load-out operations, and eqn 4-9 from U.S. EPA's "Control of Open Fugitive Dust Sources" (9/88) for wind erosion. These emission limits in this permit were based on a maximum production of 2,174,000 TPY, a maximum storage surface area of 9.3 acres, and the following control efficiencies (CEs) for PE:

<u>Source</u>	<u>% CE for material handling</u>	<u>% CE for wind erosion</u>
Surge	50	50
1's, 2's, & 4's	50	50
304's & 617's	50	50
57's	95	75
8's	95	75

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9's	95	75
sand	95	75

b. Emission Limitation:

There shall be no visible PE except for a period of time not to exceed one minute in any 60-minute observation period.

Applicable Compliance Method:

Compliance with the visible PE limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

F. Miscellaneous Requirements

1. This permit-to-install (PTI) replaces PTI No. 02-15074, previously issued for this facility on July 30, 2001.