



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 03-17243

Fac ID: 0387000355

DATE: 10/4/2007

Precision Aggregate II LLC
William Schmeltz Sr.
12580 Greensburg Pike
Portage, OH 43451

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

NWDO



**Permit To Install
Terms and Conditions**

**Issue Date: 10/4/2007
Effective Date: 10/4/2007**

FINAL PERMIT TO INSTALL 03-17243

Application Number: 03-17243
Facility ID: 0387000355
Permit Fee: **\$5200**
Name of Facility: Precision Aggregate II LLC
Person to Contact: William Schmeltz Sr.
Address: 12580 Greensburg Pike
Portage, OH 43451

Location of proposed air contaminant source(s) [emissions unit(s)]:
**12580 Greensburg Pike
Portage, Ohio**

Description of proposed emissions unit(s):
Aggregate processing plant, storage piles, mineral extraction, and paved and unpaved roadways.

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

Chris Korleski
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 (i.e., postmarked) quarterly 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 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	29.92
PM ₁₀	17.59

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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 - (F001) - Paved and unpaved roadways

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>10.95 tons of fugitive particulate emissions (PE)/year</p> <p>2.74 tons of particulate matter ten microns in diameter or less (PM₁₀) per year</p> <p><u>paved roadways and parking areas:</u> there shall be no visible fugitive particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any 60-minute observation period.</p> <p>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, and A.2.e through A.2.i)</p> <p><u>unpaved roadways and parking areas:</u> there shall be no visible fugitive particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.</p> <p>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.d through A.2.i)</p>
OAC rule 3745-17-07(B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

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OAC rule 3745-17-08(B)

This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).

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2. Additional Terms and Conditions

- 2.a** The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadways:

all paved roadway segments

paved parking areas:

all paved parking areas

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

all unpaved roadway segments

unpaved parking areas:

all unpaved parking areas

- 2.c** The permittee shall employ best available control measures on all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee maintains that the type of traffic and the nature of the road surface is such that no controls are necessary to comply with all applicable requirements. If at anytime the type of traffic and the nature of the road surface is not sufficient to meet the above applicable requirements, the permittee shall employ best available control measures to ensure compliance.

- 2.d** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee has committed to watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.e** 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 a paved or unpaved roadway or parking area that is covered with snow and/or ice

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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.f** 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.g** 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.h** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.i** 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 the roadways and parking areas in accordance with the following frequencies:

Roadway and/or Parking Area	Minimum Inspection Frequency
all paved roadways and parking areas	once during each day of operation
all unpaved roadways and parking areas	once during each day of operation

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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.
3. 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use. 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.
4. 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 (d.) shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and 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, in accordance with the reporting requirements of the General Terms and Conditions of this permit, 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

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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.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation:
10.95 tons of fugitive PE/year

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Applicable Compliance Method:

The emission limitation was established by summing the total emissions from paved and unpaved roadways and parking areas.

The total emissions were based on the following:

- i. for paved roadways and parking areas: multiply the AP-42 emission factor, E, with the respective maximum vehicle miles traveled per year (VMT/yr), and 1 ton/2000 lbs, and applying a control efficiency of 95% for water, flushing, and chemical suppressants, as follows:

<u>Type of Vehicle</u>		<u>W (tons)</u>	<u>sL (%)</u>	<u>VMT/yr</u>
Medium duty diesel		25	7.1	7500
Light duty gas	4	7.1	7500	

The AP-42 emission factor is calculated by using the equation in AP-42's Chapter 13 Section 2.1 (dated 11/2006):

$$E = k (sL/2)^{0.65} (W/3)^{1.5} - C$$

where E = particulate emission factor (having same units as k)

k = 0.082 lb/VMT (based on Table 13.2.1-2. for which PM₃₀ is assumed equivalent to PE)

sL = road surface silt loading (grams per square meter) (g/m²)

W = average weight (in tons) of the vehicles driving the road

C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear (equivalent to 0.00047 lb/VMT based on Table 13.2.1-2.)

and

- ii. for unpaved roadways and parking area: multiply the AP-42 emission factor, E, with the respective maximum vehicle miles traveled per year (VMT/yr) and 1 ton/2000 lbs as follows:

<u>Type of Vehicle</u>	<u>W (tons)</u>	<u>s (%)</u>	<u>VMT/yr</u>
Medium duty diesel	25	4.860	000

The AP-42 emission factor is calculated by using the equation in AP-42's Chapter 13 Section 2.2 (dated 11/2006):

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$$E = k (s/12)^a (W/3)^b$$

where E = particulate emission factor (having same units as k)

k = 4.9 lb/VMT (based on Table 13.2.2-2. for which PM₃₀ is assumed equivalent to PE)

a = 0.7

b = 0.45

s = silt content (weight %) which is 4.8

W = average weight (in tons) of the vehicles driving the road

Therefore, provided compliance is shown with the requirements of the best available control measures, compliance with the ton per year PE limitation will be assumed.

- b. Emission Limitation:
2.74 tons of fugitive PM₁₀/year

Applicable Compliance Method:

The emission limitation was established by summing the total emissions from paved and unpaved roadways and parking areas.

The total emissions were based on the following:

- i. for paved roadways and parking areas: multiply the AP-42 emission factor, E, with the respective maximum vehicle miles traveled per year (VMT/yr), and 1 ton/2000 lbs, and applying a control efficiency of 95% for water, flushing, and chemical suppressants, as follows:

<u>Type of Vehicle</u>	<u>W (tons)</u>	<u>sL (%)</u>	<u>VMT/yr</u>
Medium duty diesel	25	7.1	7500
Light duty gas	4	7.1	7500

The AP-42 emission factor is calculated by using the equation in AP-42's Chapter 13 Section 2.1 (dated 11/2006):

$$E = k (sL/2)^{0.65} (W/3)^{1.5} - C$$

where E = particulate emission factor (having same units as k)

k = 0.016 lb/VMT (based on Table 13.2.1-2. for PM₁₀)

sL = road surface silt loading (grams per square meter) (g/m²)

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W = average weight (in tons) of the vehicles driving the road

C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear (equivalent to 0.00047 lb/VMT based on Table 13.2.1-2.)

and

for unpaved roadways and parking areas: multiply the AP-42 emission factor, E, with the respective maximum vehicle miles traveled per year (VMT/yr) and 1 ton/2000 lbs as follows:

<u>Type of Vehicle</u>	<u>W (tons)</u>	<u>s (%)VMT/yr</u>
Medium duty diesel	25	4.860,000

The AP-42 emission factor is calculated by using the equation in AP-42's Chapter 13 Section 2.2 (dated 11/2006):

$$E = k (s/12)^a (W/3)^b$$

where E = particulate emission factor (having same units as k)

k = 1.5 lb/VMT (based on Table 13.2.2-2. for PM₁₀)

a = 0.9

b = 0.45

s = silt content (weight %) which is 4.8

W = average weight (in tons) of the vehicles driving the road

Therefore, provided compliance is shown with the requirements of the best available control measures, compliance with the ton per year PM₁₀ limitation will be assumed.

c. Emission Limitation:

No visible fugitive particulate emissions from any paved roadway or parking area 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 emission 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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

Emissions Unit ID: **F001**d. Emission Limitation:

No visible fugitive particulate emissions except for a period of time not to exceed three minutes during any 60-minute observation period from unpaved roadways and parking areas

Applicable Compliance Method:

If required, compliance with the visible emission 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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

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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 - (F002) - Storage piles

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>1.80 tons of fugitive PE per year (from load-in and load-out operations and wind erosion)</p> <p>0.10 tons of fugitive PM₁₀ per year (from load-in and load-out operations)</p> <p><u>Load-in and load-out of storage piles:</u> no visible fugitive particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period</p> <p>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.b, A.2.c and A.2.f)</p> <p><u>Wind erosion:</u> no visible fugitive particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period</p> <p>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.d through A.2.f)</p>
OAC rule 3745-17-07(B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B) (see A.2.f).

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Emissions Unit ID: **F002**

2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

all storage piles

- 2.b** 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 permit application, the permittee has committed to watering, maintaining as low of a pile height as possible, and reducing drop heights from front end loaders to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
- 2.d** 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 permittee's permit application, the permittee has committed to watering and having an inherent moisture content to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures 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.f** Implementation of the above-mentioned control measures in accordance with the

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terms and conditions of this permit is appropriate and sufficient to satisfy the 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 load-in operation at each storage pile in accordance with the following frequencies:

Storage Pile Identification
all storage piles

Minimum Load-In Inspection Frequency
once during each day of operation

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:

Storage Pile identification
all storage piles

Minimum Load-Out Inspection Frequency
once during each day of operation

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:

Storage Pile Identification
all storage piles

Minimum Wind Erosion Inspection Frequency
once during each day of operation

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

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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 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.
7. 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, 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 7.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.

D. Reporting Requirements

1. The permittee shall submit deviation reports, in accordance with the reporting requirements of the General Terms and Conditions of this permit, that identify any of the following occurrences:

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- 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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 shall be determined in accordance with the following methods:
 - a. Emission Limitation
1.80 tons of fugitive PE/year (from load-in and load-out operations and wind erosion)

Applicable Compliance Method

The emission limitation was established by combining the emissions from load-in and load-out operations and wind erosion from all the storage piles as listed in the permittee's application and applying a 90% control efficiency for use of best available control measures.

The total emissions were based on the following:

- i. for load-in: emissions associated with load-in operations were established by multiplying the maximum load-in rate of 1,000,000 tons per year of limestone by the appropriate emission factor as calculated from AP-42 section 13.2.4. (11/2006) [0.0022 lb PE/ton product], and dividing by 2000 lbs/ton;
- ii. for load-out: emissions associated with load-out operations were established by multiplying the maximum load-out rate of 1,000,000 tons per year of limestone by the appropriate emission factor as calculated from AP-42 section 13.2.4.(11/2006) [0.0022 lb PE/ton product], and dividing by 2000 lbs/ton.
- iii. wind erosion: emissions associated with wind erosion were established by using an equation from the Air Pollution Engineering Manual (2nd edition) as follows:

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$$E = 1.7 (s/1.5) (365-p/235) (f/15)$$

where s = 4.0% silt content of material on average

p= 140 days of rain > 0.01 inches

f = 30% of wind > 12 mph

E = particulate emissions in units of pounds per day per acre

There are ten acres of storage space as listed in the permittee's application.

Therefore, provided compliance is shown with the requirements of this permit to apply best available control measures, compliance with the ton per year PE limitation will be assumed.

b. Emission Limitation

0.10 tons of fugitive PM₁₀/year (from load-in and load-out operations)

Applicable Compliance Method

The emission limitation was established by combining the emissions from load-in and load-out operations from all the storage piles as listed in the permittee's application and applying a 90% control efficiency for use of best available control measures. Load-in and load-out operation emissions are based on a maximum load-in and load-out rate of 1,000,000 tons per year of limestone.

The emission rate was determined as follows:

- i. for load-in: emissions associated with load-in operations were established by multiplying the maximum load-in rate of 1,000,000 tons per year of limestone by the appropriate emission factor as calculated from AP-42 section 13.2.4. (11/2006) [0.0010 lb PM₁₀/ton product], and dividing by 2000 lbs/ton; and
- ii. for load-out: emissions associated with load-out operations were established by multiplying the maximum load-out rate of 1,000,000 tons per year of limestone by the appropriate emission factor as calculated from AP-42 section 13.2.4.(11/2006) [0.0010 lb PM₁₀/ton product], and dividing by 2000 lbs/ton.

Therefore, provided compliance is shown with the requirements of the best available control measures, compliance with the ton per year PM₁₀ limitation will

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be assumed.

c. Emission Limitation

No visible fugitive particulate emissions except for a period of time not to exceed one minute during any 60-minute observation period.

Applicable Compliance Method

Compliance with the visible emission limitation 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"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

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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) - Drilling, Blasting, and Loading (Mineral Extraction operations)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>11.20 tons of fugitive particulate emissions (PE) per year (from drilling, blasting, overburden loading and mineral loading)</p> <p>11.14 tons of fugitive PM₁₀ per year (from drilling*, blasting*, overburden loading* and mineral loading)</p> <p>see A.2.a through A.2.c</p> <p>Opacity restrictions (see A.2.d)</p>
OAC rule 3745-17-07(B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B) (see A.2.c).

* All PE from these operations are considered PM₁₀.

2. Additional Terms and Conditions

- 2.a The following mineral extraction operations are covered by this permit and subject to the above mentioned requirements:

- I. overburden removal;
- ii. overburden replacement;
- iii. loading of overburden;

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- iv. drilling;
- v. blasting; and
- vi. loading of limestone.

2.b The permittee shall employ best available control measures for the above-identified mineral extraction operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permit application, the permittee has committed to perform the following control measures to ensure compliance:

<u>mineral extraction operation</u>	<u>control measure(s)</u>
overburden removal & reclamation reclaim land surface as expeditiously as possible, maintenance of inherent moisture content with water truck	minimize area of disturbed land surface,
blasting	minimize area to be blasted, prevention of overshooting
drilling	use of a drill rig to control emissions
limestone loading into trucks	prevent haul vehicle overloading, maintain low drop height from front end loader bucket
overburden loading into trucks	prevent haul vehicle overloading, maintain low drop height from front end loader bucket

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

2.c Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

2.d Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal and reclamation, drilling, limestone loading into trucks, and overburden loading into trucks.

B. Operational Restrictions

1. The permittee shall not exceed 60 blasts per year.
2. The permittee shall not exceed a mineral extraction throughput of 1,000,000 tons of limestone per year (this restriction is based on the amount of material loaded into trucks).

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C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for mineral extraction operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>mineral extraction operation</u>	<u>minimum inspection frequency</u>
all	once per day of operation

2. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for the mineral extraction operations. The inspections shall be performed during representative, normal storage pile operating conditions.
3. The permittee may, upon receipt of written approval from the Ohio EPA Northwest District Office, 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 mineral extraction 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 the following monthly records for each blast:
 - a. the date the blast occurred;
 - b. the total number of blasts each month; and

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- c. the annual year to date, number of blasts (sum of b for each calendar month to date from January to December).

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6. The permittee shall maintain the following monthly mineral extraction records:
 - a. the total limestone throughput (i.e. the amount of stone loaded into trucks), in tons per month; and
 - b. the annual, year-to-date, amount of limestone processed [sum of (a) for each calendar month-to-date from January to December].

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; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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

2. The permittee shall submit annual deviation reports that identify exceedances of the following:
 - a. the annual number of blasts per year; and
 - b. the annual limit of the amount of stone processed.

If no deviations occurred during a calendar year, the permittee shall submit an annual report, which states that no deviations occurred during that calendar year. The reports shall be submitted annually, by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

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

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Emissions Unit ID: F003

11.20 tons of fugitive PE per year
11.14 tons of fugitive PM₁₀ per year

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Applicable Compliance Method:

The annual particulate emission limitations were developed by applying the following emission factors/equations and control efficiencies to the associated process weight rates:

Mineral Extraction Operation	Maximum Process Weight Rate	Control Efficiency	Emission Factor	Emission Factor Citation
Overburden Removal	500,000 tons/yr	None Established	0.037 lb/ton removed	AP-42 Table 11.9-4, 7/1998
Loading/unloading into Trucks	1,000,000 tons/year	None Established	0.0001 lb PE/ton loaded	AP-42 Table 11.19.2-1, 8/04
Drilling	1,280 holes/yr	90%	1.30 lbs PE/hole	AP-42 11.9-4
Blasting	60 blasts/year	None	58.5 lbs per blast	RACM Table 2.1.4-4, 9/80

b. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 3-minute average from the following mineral extraction operations: overburden removal and reclamation, drilling, limestone loading into trucks, and overburden loading into trucks.

Applicable Compliance Method:

If required, compliance with the visible emission limitation shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

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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 - (F004) - Aggregate Processing Plant

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	5.97 tons of fugitive PE per year 2.03 tons of fugitive PM ₁₀ per year Visible Emission Restrictions (see A.2.d) Use of Best Available Control Measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see A.2.a. through A.2.c) see A.2.f
OAC rule 3745-17-07(B)	This emission unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).
OAC rule 3745-17-08(B)	The permittee is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emission unit is exempt from the requirements of OAC rule 3745-17-07(B).
40 CFR Part 60, Subpart OOO	Visible Emission Restrictions (see A.2.d)

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures for the above-identified material processing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance:

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material handling operationcrushing and screening
transfer/conveyingcontrol measure(s)water application, if needed
water application, if needed

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

- 2.b** For each crushing, screening, and transfer operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the processing operations until further observation confirms that use of the control measures is unnecessary.
- 2.c** 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.
- 2.d** Visible emissions from the material processing equipment shall not exceed the following opacity restrictions:

Emissions Point (Company ID)	Equipment Type	Opacity Limit as a 6-minute average, unless otherwise specified	Regulatory Basis for Limit
(A) 6X20 2 deck screen	screen	10%	NSPS, Subpart 000
(B) 3042 Jaw crusher	crusher	15%	NSPS, Subpart 000
©) 6X20 3 deck screen	screen	10%	NSPS, Subpart 000
©) 130/150 secondary crusher	crusher	15%	NSPS, Subpart 000
(D) 6X24 3 deck screen	screen	10%	NSPS, Subpart 000
(1) Type D conveyor 30"X 60'	transfer point	10%	NSPS, Subpart 000

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(2) 1 + 2 conveyor 30"X60'	transfer point	10%	NSPS, Subpart 000
(3) 304 Laydown 30"X60'	transfer point	10%	NSPS, Subpart 000
(4) 304 stacker 30"X120'	transfer point	10%	NSPS, Subpart 000
(5) Berm laydown #2-30"X60'	transfer point	10%	NSPS, Subpart 000
(6) Berm laydown #1-30"X60'	transfer point	10%	NSPS, Subpart 000
(7) conveyor to main screen 48"X112'	transfer point	10%	NSPS, Subpart 000
(8) #2 return conveyor 30"X60'	transfer point	10%	NSPS, Subpart 000
(9) #1 return conveyor 30"X60'	transfer point	10%	NSPS, Subpart 000
(10) Conveyor under impactor 30"X22'	transfer point	10%	NSPS, Subpart 000
(11) #6 stacker 30"X120'	transfer point	10%	NSPS, Subpart 000
(12) #411 laydown 30"X40'	transfer point	10%	NSPS, Subpart 000
(13) Long laydown 30"X125'	transfer point	10%	NSPS, Subpart 000
(14) #411stacker 30"X90'	transfer point	10%	NSPS, Subpart 000
(15) #1 sand conveyor 30"X20'	transfer point	10%	NSPS, Subpart 000
(16) #2 sand conveyor 30"X20'	transfer point	10%	NSPS, Subpart 000
(17) Mfg. sand stacker 30"X120'	transfer point	10%	NSPS, Subpart 000
(18) #8 laydown 30"X20'	transfer point	10%	NSPS, Subpart 000
(19) #8 stacker 30"X120'	transfer point	10%	NSPS, Subpart 000
(20) #57 laydown 30"X20'	transfer point	10%	NSPS, Subpart 000
(21) #57 stacker 30"X110'	transfer point	10%	NSPS, Subpart 000

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- 2.e** 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.
- 2.f** The requirements of this rule also include compliance with 40 CFR, Part 60, Subpart OOO.

B. Operational Restrictions

- 1. The maximum annual material throughput for this emissions unit shall not exceed 1,000,000 tons. This restriction is based on the material throughput of the crusher.

C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain monthly records of the amount (tons per month and total tons, to date, for the calendar year) of material processed through the crusher of this emissions unit.
- 2. Except as otherwise provided in this section, for material processing operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Material Processing Operations</u>	<u>Minimum Inspection Frequency</u>
All	Once During Each Day of Operation

- 3. The above-mentioned inspections shall be performed during representative, normal operating conditions.
- 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

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(were) implemented.

The information in 4.d. shall be kept separately for each material processing operation identified above, 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 annual deviation (excursion) reports that identify any exceedances of the annual material throughput limitation, as well as the corrective actions that have been taken to achieve compliance. If no deviations occurred during the calendar year, the permittee shall submit an annual report which states that no deviations occurred during the calendar year. These reports shall be submitted by January 31 of each year.
2. 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.
3. The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR, Part 60, Subpart OOO, including the reports of opacity observations using Method 9 to demonstrate compliance with this subpart.
4. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
 - a. for a crusher, grinding mill, bucket elevator, bagging operations, 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 conveyor belt:
 - i. the width of the existing belt being replaced, and
 - ii. the width of the replacement conveyor belt; and

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The notification shall be submitted within 30 days after the equipment replacement.

5. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
 - a. construction date (no later than 30 days after such date);
 - b. actual start-up date (within 15 days after such date); and
 - c. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio EPA, Northwest District Office
Division of Air Pollution Control
347 North Dunbridge Road
Bowling Green, OH 43402

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for all transfer points, screens and crushers of emissions unit F004.
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, by 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 methods shall be employed to demonstrate compliance with the allowable visible emissions 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

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

- a. Emission Limitation:
5.97 tons of fugitive PE per year

Applicable Compliance Method:

The emission limitation was developed using the following equation: Total Emissions = Crushing* + Screening** + Transfer Points***

*Crushing: For each crusher (2 total), multiply the AP-42 emission factor of 0.0012 lb PE/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

**Screening: (3 total) multiply the AP-42 emission factor of 0.0022 lb PE/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

***Transfer Points: For each transfer point (21 total), multiply the AP-42 emission factor of 0.00014 lb PE/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

Therefore, provided compliance is shown with the requirement to apply best available control measures and the throughput restriction, compliance with the

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ton per year PE limitation will be assumed.

- b. Emission Limitation:
2.03 tons of fugitive PM₁₀ per year

Applicable Compliance Method:

The emission limitation was developed using the following equation: Total Emissions = Crushing* + Screening** + Transfer Points***

*Crushing: For each crusher (2 total), multiply the AP-42 emission factor of 0.00054 lb PM₁₀/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

**Screening: (3 total) multiply the AP-42 emission factor of 0.00074 lb PM₁₀/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

***Transfer Points: For each transfer point (21 total), multiply the AP-42 emission factor of 0.000046 lb PM₁₀/ton (Section 11.19.2, 8/2004) by the maximum annual throughput of 1,000,000 tons and 1 ton/2000 lbs.

Therefore, provided compliance is shown with the requirement to apply best available control measures and the throughput restriction, compliance with the ton per year PM₁₀ 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% 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 as specified in sections E.1. through E.6. above.

- 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% 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 as specified in sections E.1. through E.6. above.

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F. Miscellaneous Requirements

None

Emissions Unit ID: F004

SIC CODE 1499 SCC CODE A2296000000 EMISSIONS UNIT ID F001
 EMISSIONS UNIT DESCRIPTION Paved and unpaved roadways
 DATE INSTALLED 04/03/1996

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Paved roadways				0.90
	Unpaved roadways				10.05
PM ₁₀	Paved roadways				0.18
	Unpaved roadways				2.56
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? No PSD? No OFFSET POLICY? No

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Watering at sufficient times to minimize/reduce fugitive particulate emissions. Compliance with the terms and conditions of this permit is also a requirement.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES NO

IDENTIFY THE AIR CONTAMINANTS: _____

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PTI Application: 03-17243
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Facility ID: 0387000355

Emissions Unit ID: **F004**

SIC CODE SCC CODE EMISSIONS UNIT ID

EMISSIONS UNIT DESCRIPTION

DATE INSTALLED

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Crushing/Screening/Transfer Points				5.97
PM ₁₀	Crushing/Screening/Transfer Points				2.03
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
The permittee has committed to apply water when needed to reduce/minimize fugitive dust emissions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? YES NO

IDENTIFY THE AIR CONTAMINANTS: