



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
FAYETTE 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: 01-08793

DATE: 3/23/2004

Blue Rock Quarry
Patrick Montgomery
1337 Dayton Xenia Road
Xenia, OH 45385

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 by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. 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, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 3/23/2004
Effective Date: 3/23/2004**

FINAL PERMIT TO INSTALL 01-08793

Application Number: 01-08793
APS Premise Number: 0124010001
Permit Fee: **\$7450**
Name of Facility: Blue Rock Quarry
Person to Contact: Patrick Montgomery
Address: 1337 Dayton Xenia Road
Xenia, OH 45385

Location of proposed air contaminant source(s) [emissions unit(s)]:
**10815 State Route 41 N
Greenfield, Ohio**

Description of proposed emissions unit(s):
Crushing operation.

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 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

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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)

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

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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.

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.

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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	5.58
SOx	3.02
NOx	45.51
OC	3.64
CO	9.81

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F004 - Material Handling, Screens (5) and Conveyors (26)	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 6.41 lbs/hr and 3.54 tons per year. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO. Visible emissions from the these emissions units shall not exceed 10% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Transfer Points (52) = 500 tons/hr
 Material Handling = 500 tons/hr
 Screens (5) = 500 tons/hr
 Load in/Load out = 500 tons/hr

- 2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit

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Blue F

PTI A

Issued: 3/23/2004

Emissions Unit ID: **F004**

application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)

Load in or load out or any combination of loading or conveying

control measure(s)

Application of water, where necessary, to control particulate emissions.

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

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) 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 measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d** 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.e** The 6.41 pound of particulate emissions per hour limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

- 1. Material handling shall be restricted to a throughput of 555,000 tons of aggregate per year.

C. Monitoring and/or Record keeping Requirements

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

material handling operation(s)

Load in, load out and conveying

minimum inspection frequency

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 Central 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 material handling 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 records of the amount of total aggregate produced in tons in emissions unit F004. Such records shall be retained in accordance with the General Terms and Conditions section of this permit.

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; and
 - b. each instance when a control measure, that was to be performed 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.
3. The permittee shall notify the Central District Office in writing of any record showing that the annual plant wide throughput of aggregate has exceeded the applicable yearly limitation. The

notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

Particulate emissions shall not exceed 6.41 lbs/hr and 3.54 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the calculated hourly emission rate for each conveying or handling or loading operation, these emission factors are specified in USEPA reference document AP-42, 11.19.2-2 (1/95). The resulting sum shall be multiplied by the maximum hourly production rate (500 tons/hr. PTI application, 8/29/03). See the following calculations:

Includes load in, conveying, and load out using AP-42 11.19.2 and 500 ton/hr max through put.

Load in and out PTE = $(0.0001 \text{ #PE/ton})(500 \text{ ton/hr})(2 \text{ load in} + \text{out}) = 0.1 \text{ lbs PE/hr}$
 $(0.0001 \text{ lbs PE/Ton}) (555,000 \text{ TPY}/2000) = 0.03 \text{ Ton per year particulate emissions}$

Screening PTE = $0.002 \text{ Lbs PE/ton})(500 \text{ TPH})(5 \text{ screens}) = 5.0 \text{ Lbs PE/hr}$ $(0.002 \text{ Lbs PE/ton}) (5 \text{ screens}) (555,000 \text{ TPY}/2000) = 2.78 \text{ Tons per year particulate emissions}$

Conveyor transfer points PTE = $(0.000048 \text{ #PM-10/ton})(2.1\text{\#TSP/\#PM-10})(500 \text{ ton/hr})$
 $(26) = 1.31 \text{ #PE/hr}$ $(0.000048 \text{ #PM-10/ton})(2.1\text{\#TSP/\#PM-10})(555,000 \text{ TPY})$
 $(26) /2000 = 0.73 \text{ Tons per year particulate emissions}$

Total = 3.54 Tons per year particulate emissions

b. Emission Limitation:

Visible Emissions of fugitive dust shall not exceed 10% opacity, except as provided by rule.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. On or after the sixtieth day after the PTI is issued, but not later than 180 days after PTI issuance, emissions testing shall be conducted.
 - ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
 - iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of these test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central District Office shall be permitted to witness the test(s), 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 from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40

Blue Rock Quarry
PTI Application: 01 09702
Issued

Facility ID: 0124010001

Emissions Unit ID: **F004**

CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F004	Material handling, loading, screening, and conveying operations	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing).

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Blue F

PTI A

Issued: 3/23/2004

Emissions Unit ID: **F004**

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049
and
Central District Office
Division of Air Pollution Control
3232 Alum Creek Drive
Columbus, OH 43207

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P003 - Hazemag 4360 Impact Crusher 500 TPH	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.62 lb/hr and 0.34 ton per year. See A.2. a below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The 0.62 pound of particulate emissions per hour limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.
2. Crusher shall be restricted to a throughput of 555,000 tons of aggregate a year

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective action taken to eliminate the visible emissions.
2. The permittee shall maintain monthly records of the amount of total aggregate produced in tons in emissions unit P003. Such records shall be retained in accordance with the General Terms and Conditions section of this permit.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall notify the Central District Office in writing of any record showing that the annual plant wide throughput of aggregate has exceeded the applicable yearly limitation. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Particulate emissions shall not exceed 0.62 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (500 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). $(0.001239 \text{ lb/ton PE}) (500 \text{ tons/hr (8/29/03 application)}) = 0.62 \text{ lbs PE/hour}$

- b. Emission Limitation:
Particulate emissions shall not exceed 0.34 tons per year.

Applicable Compliance Method:

Compliance with the allowable annual emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the emission unit's restricted annual throughput (555,000 tons). The calculation uses the following equation: $(0.001239 \text{ lbs/ton})(555,000 \text{ TPY restriction per year} / 2000 \text{ lbs}) = 0.34 \text{ TPY PE}$

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Central District Office.

Blue Rock Quarry
PTI Application: 01 09702
Issued

Facility ID: 0124010001

Emissions Unit ID: **P003**

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central District Office shall be permitted to witness the test(s), 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 from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P003	Primary Crusher (500 ton/hr)	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

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Blue F

PTI A

Issued: 3/23/2004

Emissions Unit ID: **P003**

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning

P.O. Box 1049

Columbus, OH 43216-1049

and

Central District Office

Division of Air Pollution Control

3232 Alum Creek Drive

Columbus, OH 43207

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P004 - Cedar Rapids 5064 Impact Crusher 500 TPH	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.62 lb/hr and 0.34 ton per year. See A.2 a, below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The 0.62 pound of particulate emissions per hour limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.
2. Crusher shall be restricted to a throughput of 555,000 tons of aggregate a year

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall notify the Central District Office in writing of any record showing that the yearly plant wide throughput of aggregate has exceeded the applicable yearly limitation. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.
3. The permittee shall maintain monthly records of the amount of total aggregate produced in tons in emissions unit P004. Such records shall be retained in accordance with the General Terms and Conditions section of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Particulate emissions shall not exceed 0.62 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (500 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). (0.001239 lb/ton PE) (500 tons/hr (8/29/03 application) = 0.62 lbs PE/hour

- b. Emission Limitation:
Particulate emissions shall not exceed 0.34 ton per year.

Applicable Compliance Method:

Compliance with the allowable yearly emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum allowable throughput (555,000 tons). (0.001239 lbs/ton)(555,000 TPY restriction per year / 2000) = 0.34 TPY PE

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Central District Office.

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Emissions Unit ID: **P004**

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central District Office shall be permitted to witness the test(s), 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 from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P004	Secondary Crusher (500 ton/hr)	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

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PTI A

Issued: 3/23/2004

Emissions Unit ID: **P004**

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning

P.O. Box 1049

Columbus, OH 43216-1049

and

Central District Office

Division of Air Pollution Control

3232 Alum Creek Drive

Columbus, OH 43207

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P005 - Hazemag CK400 Impact Crusher 500 TPH.	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.62 lb/hr and 0.34 ton per year. See A.2.a, below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The 0.62 pound of particulate emissions per hour limitation for this emissions unit was established to reflect the hourly potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.
2. Crusher shall be restricted to throughput of only 555,000 tons of aggregate a year

C. Monitoring and/or Record keeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident; and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall notify the Central District Office in writing of any record showing that the annual plant wide throughput of aggregate has exceeded the applicable yearly limitation. The notification shall include a copy of such record and shall be sent to the Central District Office within 45 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
Particulate emissions shall not exceed 0.62 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the

emission unit's maximum hourly throughput (500 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). (0.001239 lb/ton PE) (500 tons/hr (8/29/03 application) = 0.62 lbs PE/hour.

- b. Emission Limitation:
Particulate emissions shall not exceed 0.34 ton per year.

Applicable Compliance Method:

Compliance with the allowable yearly emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.001239 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum allowable throughput (555,000 tons). $(0.001239 \text{ lbs/ton})(555,000 \text{ TPY restriction per year} / 2000) = 0.34 \text{ TPY PE}$

c. Emission limitation:

Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- iv. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that

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Emissions Unit ID: **P005**

the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Central District Office.

F. Miscellaneous Requirements

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P005	Secondary Crusher (500 ton/hr)	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Air Quality Modeling and Planning
P.O. Box 1049
Columbus, OH 43216-1049
and
Central District Office
Division of Air Pollution Control
3232 Alum Creek Drive
Columbus, OH 43207

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P006 - Diesel Electric Generator, 335 horsepower	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-17-11(B)(5)(a)
	OAC rule 3745-21-08(B)
	OAC rule 3745-23-06(B)
	OAC rules 3745-18-06(G)
	OAC rule 3745-17-07(A)

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PTI A
Issued: 3/23/2004

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Applicable Emissions Limitations/Control Measures	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
Particulate emissions shall not exceed 1.22 TPY.	The particulate emissions from the engine's exhaust shall not exceed 0.25 lb/MMBTU of actual heat input. See Section A.2.f below.
Sulfur dioxide (SO ₂) emissions shall not exceed 0.69 pound per hour and 3.02 tons per year.	The particulate emissions from the engine's exhaust shall not exceed 0.31 lb/MMBTU of actual heat input. See Section A.2.g below.
Nitrogen oxides (NO _x) emissions shall not exceed 10.39 pounds per hour and 45.51 tons per year.	None, see A.2.b. below.
Organic Compound (OC) emissions shall not exceed 0.83 pound per hour and 3.64 tons per year.	None, see A.2.c. below.
Carbon monoxide (CO) emissions shall not exceed 2.24 pounds per hour and 9.81 tons per year.	None, see A.2.e below.
See Sections A.2.a - g.	
The requirements established pursuant to this rule also include the compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(a), 3745-21-08(B), 3745-23-06(B), and 3745-18-06(G).	

2. Additional Terms and Conditions

2.a The hourly and ton per year emission limitations for this emissions unit were established to reflect the potential to emit. Therefore, with the exception of the fuel oil analysis, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these limits.

2.b The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2.c The design of the emissions unit and the technology associated with the current operating practices will satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06.

2.d This emissions unit shall burn only number 2 fuel oil with a sulfur content less than 0.5% by weight pursuant to OAC rules 3745-31-05(A)(3).

2.e Exempt as per OAC 3745-18-06(B). Fuel burning equipment, stationary gas turbines and stationary internal combustion engines which have rated heat input capacities equal to, or less than, ten MM Btu per hour total rated capacity are exempt from 3745-18-06 (G)

2.f The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/MMBTU actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.

2.g This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. Operational Restrictions

1. None

C. Monitoring and/or Record keeping Requirements

1. For each day during which the permittee burns a fuel other than no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of fuel oil received for burning in this emissions unit, the permittee shall maintain records of the permittee's or supplier's analyses for sulfur content and BTU heating value.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number 2 fuel oil with a sulfur content less than 0.5% by weight is burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

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

- a. Emission Limitation: PE from the engine exhaust shall not exceed 0.25 lb/MMBTU actual heat input.

Applicable Compliance Method:

The permittee cannot demonstrate compliance with this emission limitation based upon the current emission factor contained in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 (10/96). The Ohio EPA revised the emission limitation specified in this rule citation based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.25 lb/MMBTU actual heat input emission limitation will no longer be applicable, and the permittee will be able to demonstrate compliance with the new emission limitation (0.310 lb/MMBTU actual heat input) using the current emission factor.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- b. Emission Limitations: Particulate emissions shall not exceed 0.31 lb/MMBTU actual heat

input from the diesel engine.

Applicable Compliance Method: Compliance shall be demonstrated using emission factor of 0.31 lb/MMBTU from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- c. Emission Limitation:
 PE from the engine exhaust shall not exceed 1.22 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated by the following one-time calculation using the particulate emission factor of 0.31 lb/MMBTU from AP-42, Table 3.3-1 (Gasoline and Diesel Industrial Engines, 10/96). and the maximum rated btu value of 0.9 MMBtu/hr. The hourly emission factor is then multiplied by 8760 hours to derive the yearly emissions total.

$$PE \text{ PTE} = (0.9 \text{ MMBTU/hr input}) (0.31 \text{ lb/MMBTU AP - 42 EF}) = 0.28 \text{ \#/hr} \\ (8760/2000) = 1.22 \text{ TPY}$$

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- d. Emission Limitations: SO₂ emissions shall not exceed 0.69 pound per hour.

Applicable Compliance Method: Compliance with the allowable mass emission rate for SO₂ emissions shall be determined by multiplying an emission factor of 0.00205 pound of SO_x per per horsepower hour by the emission unit's horse power (335). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 3.3 Table 3.3-1 (10/96). If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 6C.

- e. Emission Limitations: NO_x emissions shall not exceed 10.39 pounds per hour.

Applicable Compliance Method: Compliance with the allowable mass emission rate for NO_x emissions shall be determined by multiplying an emission factor of 0.031 pound of

NO_x per horsepower hour by the emission unit's horse power (335). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 3.3 Table 3.3-1 (10/96). If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 7E.

- f. Emission Limitations: OC emissions shall not exceed 0.83 pound per hour.

Applicable Compliance Method: Compliance with the allowable mass emission rate for OC emissions from the diesel engine shall be determined by multiplying an emission factor of 0.0022 pound of OC per horsepower hour by the emission unit's horse power (335). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 3.3 Table 3.3-1 (10/96). If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 18, 25 or 25A.

- g. Emission Limitations: CO emissions shall not exceed 2.24 pounds per hour.

Applicable Compliance Method: Compliance with the allowable mass emission rate for CO shall be determined by multiplying an emission factor of 0.00668 pound CO per horsepower hour by the emission unit's horse power (335). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 3.3 Table 3.3-1 (10/96). If required, the permittee shall demonstrate compliance with the emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 10.

- h. Emission Limitations: NO_x emissions shall not exceed 45.51 tons per year; SO₂ emissions shall not exceed 3.02 tons per year; CO emissions shall not exceed 9.81 tons per year; OC emissions shall not exceed 3.64 tons per year; particulate emissions shall not exceed 1.22 tons per year;

Applicable Compliance Method: Compliance with the annual limitations shall be assumed as long as compliance with the hourly limitations is maintained (each annual limitation was calculated by multiplying the hourly limitation by 8760, and then dividing by 2000).

- i. Emission Limitations: Visible emissions of fugitive dust from any stack shall not exceed 20% opacity as a 6 minute average.

Applicable Compliance Method: Compliance shall be determined through visible emissions

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observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

None