State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

**TELE:** (614) 644-3020 **FAX:** (614) 644-2329

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

06/08/00

**CERTIFIED MAIL**

**RE: Draft Title V Chapter 3745-77 permit**

02-50-00-0959
EAST FAIRFIELD COAL COMPANY
David Conrad
13699 State Route 170
Petersburg, OH 44454

Dear David Conrad:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Northeast District Office within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

**If you have any questions or comments concerning this draft Title V permit, please contact Northeast District Office.**

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA
Jim Orlemann, DAPC Engineering
Michael Ahern, DAPC PMU
Northeast District Office
Pennsylvania
West Virginia

**Ohio EPA**
State of Ohio Environmental Protection Agency

# TITLE V PERMIT

Issue Date: 06/08/00

## DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

EAST FAIRFIELD COAL COMPANY
13699 State Route 170
Petersburg, OH 44454

of a Title V permit for Facility ID: 02-50-00-0959

Emissions Unit ID (Company ID)/
Emissions Unit Activity Description:
B001 (DIESEL GENERATOR)
1250 HP #2 DIESEL FUEL

F001 (PARKING/ROADWAYS)
ASPHALT PAVING OF MAIN ENTRANCE

F002 (AGGREGATE STORAGE PILES)
LIMESTONE PILES

F003 (PRIMARY CRUSHER AND SCREENING)
FUGITIVE DUST CRUSHING & LIMESTONE SCREENING

F004 (SECONDARY CRUSHING AND SCREENING)
FUGITIVE DUST CRUSHING & LIMESTONE SCREENING(WET)

F005 (LIMESTONE MINING OPERATIONS)
SURFACE MINING OF LIMESTONE

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330) 425-9171

OHIO ENVIRONMENTAL PROTECTION AGENCY

_____

Christopher Jones
Director

# PART I - GENERAL TERMS AND CONDITIONS

## A. State and Federally Enforceable Section

### 1. Monitoring and Related Recordkeeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

   i. The date, place (as defined in the permit), and time of sampling or measurements.
   ii. The date(s) analyses were performed.
   iii. The company or entity that performed the analyses.
   iv. The analytical techniques or methods used.
   v. The results of such analyses.
   vi. The operating conditions existing at the time of sampling or measurement.

b. 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 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.

c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:

   i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
   ii. Quarterly written reports of (i) any deviations from federally enforceable <u>emission limitations</u>, <u>operational restrictions</u>, <u>and control device operating parameter limitations</u>, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written 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.) See B.8 below if no deviations occurred during the quarter.
   iii. Written reports, which identify any deviations from the federally enforceable <u>monitoring</u>, <u>recordkeeping</u>, <u>and reporting requirements</u> contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting

requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

**2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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 emission unit(s) that is (are) served by such control system(s).

**3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

**6. General Requirements**

a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**7. 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.

**8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

**9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

**10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

**11. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**12. Compliance Requirements**

a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to

the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.

ii. Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current compliance status.

(c) Whether compliance was continuous or intermittent.

(d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

**13. Permit Shield**

a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

**14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

**15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

**16. Off Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;

b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and

e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

**17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

## B. State Only Enforceable Section

### 1. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

### 2. Reporting Requirements Related to Monitoring and Recordkeeping 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 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. Additional Reporting Requirements When There Are No Deviations of <u>Federally Enforceable</u> Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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.

# Part II - Specific Facility Terms and Conditions

## A. State and Federally Enforcable Section

**None**

## B. State Only Enforceable Section

**1.** The following insignificant emissions units are located at this facility:

F006 - Teriary Crusher
F007 - Teriary Wet Screen

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** DIESEL GENERATOR (B001)

**Activity Description:** 1250 HP #2 DIESEL FUEL

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| 1250 HP No.2 diesel fuel powered generator | OAC rule 3745-17-07(A) | a. Except as specified below, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average.<br><br>b. Visible particulate emissions from the exhaust stack serving this emissions unit may exceed twenty (20) percent opacity, as a six-minute average, for not more than six (6) consecutive minutes in any sixty-minute period, but shall not exceed sixty (60) percent opacity, as a six-minute average, at any time. |
| | OAC rule 3745-31-05<br>PTI No. 02-12584 | Particulate emissions shall not exceed 0.75 pound per hour and 1.8 tons/year.<br><br>Sulfur dioxide emissions shall not exceed 6.0 pounds per hour and 14.4 tons/year.<br><br>Nitrogen oxides emissions shall not exceed 38.6 pounds per hour and 92.6 tons/year.<br><br>Carbon monoxide emissions shall not exceed 8.0 pounds per hour and 19.2 tons/year.<br><br>Organic compound emissions shall not exceed 2.5 pounds per hour and 6.0 tons/year. |

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| | OAC rule 3745-17-11(B) | See A.I.2.a |
| | OAC rule 3745-18-06 | See A.I.2.a |

**2. Additional Terms and Conditions**

**2.a** This emission limitation is less stringent than the corresponding limitation specified in PTI No. 02-12584.

## II. Operational Restrictions

**1.** The maximum annual operating hours for this emissions unit shall not exceed 4800 hours, based upon a rolling, 12- month summation of the operating hours.

**2.** The permittee shall burn only number two (2) fuel oil in this emissions unit.

## III. Monitoring and/or Record Keeping Requirements

**1.** The permittee shall maintain monthly records for this emissions unit which indicate the following information:

a. the total volume (in gallons) of No. 2 fuel oil burned in this emissions unit; and

b. the total hours of operation of this emissions unit on both a monthly and a rolling, 12-month basis.

**2.** For each day during which the permittee burns a fuel other than number two (2) fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

## IV. Reporting Requirements

**1.** The permittee shall notify the Director (the Northeast District Office) in writing of any record which shows a deviation of the operating restrictions in section A.II. above. The notification shall include a copy of such fuel usage or operations record and shall be sent to the Director (the Northeast District Office) within 45 days after the deviation occurs.

**2.** The permittee shall submit an annual report that specifies the annual volume (in gallons) of diesel fuel burned in this emissions unit as well as the annual hours of operation of this emissions unit. Each report shall be submitted by February 15 of each year and for operations data recorded during the previous calendar year.

**3.** The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two (2) fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

**4.** The permittee shall submit deviation (excursion) reports that identify each month in which the maximum annual operating hour limit, on a rolling 12-month basis, was exceeded. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

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

## V. Testing Requirements (continued)

**1.a** Emissions Limitation:
0.75 pound per hour and 1.8 tons per year of particulate emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 3.4, table 3.4-2 (.062 lb of particulate matter per mmBtu actual heat input) and the maximum rated heat rate of this emissions unit (12.05 mmBtu/hr). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).

**1.b** Emissions Limitation:
6.0 pounds per hour and 14.4 tons per year of sulfur dioxide emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 3.4, table 3.4-1 (0.29 lb of SOx per mmBtu actual heat input) and the maximum rated heat rate of this emissions unit (12.05 mmBtu/hr). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly sulfur dioxide emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 6, and in OAC 3745-18-04(E)(1).

**1.c** Emissions Limitation:

38.6 pounds per hour and 92.6 tons per year nitrogen oxide(NOx) emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (14 grams NOx per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

**1.d** Emissions Limitation:
8.0 pounds per hour and 19.2 tons per year carbon monoxide(CO) emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (2.9 grams CO per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

## V. Testing Requirements (continued)

**1.e** Emissions Limitation:
2.5 pounds per hour and 6.0 tons per year organic compound(OC) emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (0.9 grams OC per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| 1250 HP No.2 diesel fuel powered generator | | |

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** PARKING/ROADWAYS (F001)

**Activity Description:** ASPHALT PAVING OF MAIN ENTRANCE

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| paved roadways and parking areas | OAC rule 3745-17-08 | This rule does not apply per OAC 3745-17-08 (A)(1). |
| unpaved roadways and parking areas | OAC rule 3745-17-08 | This rule does not apply per OAC 3745-17-08 (A)(1). |
| paved roadways and parking areas (see Section A.2.a) | OAC rule 3745-31-05 (PTI 02-10880) | no visible particulate emissions except for six minutes during any 60- minute period<br><br>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, A.2.d, and A.2.f through A.2.j) |
| unpaved roadways and parking areas (see Section A.2.b) | OAC rule 3745-31-05 (PTI 02-10880) | no visible particulate emissions except for 13 minutes during any 60- minute period<br><br>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.e through A.2.i) |
| all roadways and parking areas | OAC rule 3745-31-05 (PTI 02-10880) | 24.6 tpy particulate emissions (see Section A.I.2.k) |

**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:

Entrance road

Paved Parking Areas:

None

## 2. Additional Terms and Conditions (continued)

**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:

Road from paved entrance to scale house
Roads around stock piles
Pit road to primary crusher

Unpaved Parking Areas:

Parking area around office

**2.c** The permittee shall employ best available control measures on all paved roadways and parking areas 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 treat the paved roadways and parking areas by sweeping and / or 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.d** The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways 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 treat the unpaved shoulders of all paved roadways with water and/or any other suitable dust suppression chemicals 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 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 permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with limestone resurfacing as needed and water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

**2.f** 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 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.g** 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 with the control measure(s) specified above 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 the visible emission limitation for paved roadways and parking areas.

**2.h** 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.i** 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.j** 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.

**2. Additional Terms and Conditions (continued)**

**2.k** The 24.6 tons per year fugitive PE emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

## II. Operational Restrictions

**1.** A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.

## III. Monitoring and/or Record Keeping 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:

| Paved Roadways and Parking Areas | minimum inspection frequency |
|---|---|
| Entrance road | daily |

| Unpaved Roadways and Parking Areas | minimum inspection frequency |
|---|---|
| Road from paved entrance to scale house | daily |
| Roads around stock piles | daily |
| Pit road to primary crusher | daily |
| Parking area around office | daily |

**2.** The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

**3.** The permittee may, upon receipt of written approval from the Northeast Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

**4.** The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed, 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 4.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.

## IV. Reporting Requirements

**1.** The permittee shall submit deviation reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result 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.

## V. Testing Requirements

**1.** Compliance with the emission limitations for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," 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.

**2.** Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitation:
24.6 tons per year of particulate emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors , sections 13.2.1 and 13.2.2.

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| paved roadways and parking areas | | |
| unpaved roadways and parking areas | | |

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** AGGREGATE STORAGE PILES (F002)

**Activity Description:** LIMESTONE PILES

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| load-in and load-out of storage piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-17-08 | This rule does not apply per OAC 3745-17-08 (A)(1). |
| wind erosion from storage piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-17-08 | This rule does not apply per OAC 3745-17-08 (A)(1). |
| load-in and load-out of storage piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-31-05<br>PTI No. 02-13725 | no visible emissions except for 13 minutes in any hour<br><br>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f) |
| wind erosion from storage piles (see Section A.2.a for identification of storage piles) | OAC rule 3745-31-05<br>PTI No. 02-13725 | no visible emissions except for one minute in any hour<br><br>best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f) |
| all storage pile operations | OAC rule 3745-31-05<br>PTI No. 02-13725 | 31.2 tpy particulate emissions (see Section A.I.2.g) |

### 2. Additional Terms and Conditions

**2.a** The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Ohio sized #1, #2, #57, and #8 aggregate storage piles, sand and DGA storage piles

**2. Additional Terms and Conditions (continued)**

**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 permittee's permit application, the permittee has committed to ensure sufficient moisture content by the addition of water 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 measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

**2.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 ensure sufficient moisture content by the addition of water 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 measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.

**2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

**2.g** The 31.2 tons per year fugitive PE emission limitation was established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limitation.

## II. Operational Restrictions

**None**

## III. Monitoring and/or Record Keeping 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 | minimum load-in inspection frequency |
|---|---|
| Ohio sized #1, #2, #57, and #8 aggregate storage piles, sand and DGA storage piles | daily |

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

| storage pile identification | minimum load-out inspection frequency |
|---|---|
| Ohio sized #1, #2, #57, and #8 aggregate storage piles, sand and DGA storage piles | daily |

## III. Monitoring and/or Record Keeping Requirements (continued)

**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 | minimum wind erosion inspection frequency |
|---|---|
| Ohio sized #1, #2, #57, and #8 aggregate storage piles, sand and DGA storage piles | weekly |

**4.** No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

**5.** The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

**6.** The permittee may, upon receipt of written approval from the Ohio EPA Northeast 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.

## IV. Reporting Requirements

**1.** The permittee shall submit deviation reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

b. each instance when a control measure, that was to be implemented as a result 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.

## V. Testing Requirements

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

**2.** Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitation:
31.2 tons per year of particulate emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of an emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors , section 13.2.4.

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| load-in and load-out of storage piles (see Section A.2.a for identification of storage piles) | | |
| wind erosion from storage piles (see Section A.2.a for identification of storage piles) | | |

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** PRIMARY CRUSHER AND SCREENING (F003)

**Activity Description:** FUGITIVE DUST CRUSHING & LIMESTONE SCREENING

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| primary crusher and screening(F003) | 40 CFR Part 60, Subpart OOO | Visible emissions shall not exceed 15 percent opacity at the crusher. Visible emissions shall not exceed 10 percent opacity at any transfer point on the belt conveyors. |
| | OAC rule 3745-31-05<br>PTI No. 02-13725 | Visible emissions shall not exceed 20 percent opacity as a three-minute average, at the screening operations.<br>See A.II.1.<br>15.3 TPY particulate emission(PE) |
| | OAC rule 3745-17-08 | This rule does not apply per OAC rule 3745-17-08 (A)(1). |
| | OAC rule 3745-17-07 | The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart OOO. |

**2. Additional Terms and Conditions**

**None**

## II. Operational Restrictions

**1.** The permittee shall control fugitive dust emissions by using water sprays at the crusher, at the belt conveyor, and at the hopper to the stacker conveyor and by minimizing the free fall distance of material.

**2.** The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.

## III. Monitoring and/or Record Keeping Requirements

**1.** The permittee shall maintain monthly records of the following information:

a. the limestone production rate for each month; and

b. the rolling, 12- month summation of the limestone production rates.

**2.** The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive dust emissions from this emissions unit. 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 operations log:

a. whether the emissions are representative of normal operations;
b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
c. the total duration of any visible emission incident; and
d. any corrective actions taken to eliminate the visible emissions.

## IV. Reporting Requirements

**1.** The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.

**2.** The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

**3.** The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

## V. Testing Requirements

**1.** Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

**1.a** Emission Limitation:
Opacity limit for visible particulate emissions

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

## V. Testing Requirements (continued)

**1.b** Emissions Limitation:
15.3 tons per year of particulate emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of the emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 11.19, table 11.19.2-2 and the limestone production rate.

Primary crusher(PE) = PR x 0.0007 lb PE/ ton of stone x CE/2000

and

Primary screening(PE) = PR x 0.0315 lb PE/ ton of stone x CE/2000

and

Total PE = Primary crusher(PE) + Primary screening(PE),

where
PR = the annual limestone production rate, and
CE = control efficiency, assumed to be 0.5 for wet suppression.

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** SECONDARY CRUSHING AND SCREENING (F004)

**Activity Description:** FUGITIVE DUST CRUSHING & LIMESTONE SCREENING(WET)

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| secondary crusher and screening (F004) | 40 CFR Part 60, Subpart OOO | Visible emissions shall not exceed 15 percent opacity at the crusher. Visible emissions shall not exceed 10 percent opacity at any transfer point on the belt conveyors. |
| | OAC rule 3745-31-05<br>PTI No. 02-13725 | Visible emissions shall not exceed 20 percent opacity as a three-minute average, at the screening operations.<br>See A.II.1.<br>42.9 TPY particulate emission(PE) |
| | OAC rule 3745-17-08 | This rule does not apply per OAC rule 3745-17-08 (A)(1). |
| | OAC rule 3745-17-07 | The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart OOO. |

**2. Additional Terms and Conditions**

**None**

## II. Operational Restrictions

**1.** The permittee shall control fugitive dust emissions by using water sprays at the crusher and at the various transfer points on the conveyors being used and by minimizing the free fall distance of material.

**2.** The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.

## III. Monitoring and/or Record Keeping Requirements

**1.** The permittee shall maintain monthly records of the following information:

a. the limestone production rate for each month; and

b. the rolling, 12- month summation of the limestone production rates.

**2.** The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive dust emissions from this emissions unit. 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 operations log:

a. whether the emissions are representative of normal operations;
b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
c. the total duration of any visible emission incident; and
d. any corrective actions taken to eliminate the visible emissions.

## IV. Reporting Requirements

**1.** The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.

**2.** The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

**3.** The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

## V. Testing Requirements

**1.** Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

**1.a** Emission Limitation:
Opacity limit for visible particulate emissions

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

## V. Testing Requirements (continued)

**1.b** Emissions Limitation:
42.9 tons per year particulate emissions.

Applicable Compliance Method:
Compliance shall be based upon the use of the emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 11.19, table 11.19.2-2 and the limestone production rate.

Secondary crusher(PE) = PR x 0.0315 lb PE/ ton of stone x CE/2000

and

Secondary screening(PE) = PR x 0.149 lb PE/ ton of stone x CE/2000

and

Total PE = Secondary crusher(PE) + Secondary screening(PE),

where
PR = the annual limestone production rate, and
CE = control efficiency, assumed to be 0.25 for secondary wet suppression.

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

# Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** LIMESTONE MINING OPERATIONS (F005)

**Activity Description:** SURFACE MINING OF LIMESTONE

## A. State and Federally Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Limestone mining operations | OAC rule 3745-31-05<br>PTI No. 02-13725 | Visible emissions shall not exceed 20 percent opacity as a three-minute average, for material removal operations, material loading operations, and drilling operations.<br>See A.II.1.<br>132.7 TPY particulate emissions(PE) |
| | OAC rule 3745-17-08 | This rule does not apply per OAC rule 3745-17-08 (A)(1). |
| | OAC rule 3745-17-07 | This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable. |

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**1.** The permittee shall control fugitive dust by using precautionary operation practices, by minimization of disturbed land surface, and by use of water sprays at all reasonable times.

**2.** The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.

**3.** The permittee shall not overload the haul trucks with extracted aggregate material, in order to minimize spillage and windage losses.

**4.** The permittee shall only use an adequate amount of explosives to prevent overshooting during blasting.

**5.** The permittee shall restrict the area to be blasted by properly sequencing the blasts and judiciously placing the charge to minimize the outward flux of particulates during blasting.

**6.** The permittee shall use and maintain a dust control system during all drilling operations to prevent fugitive dust from becoming airborne.

## III. Monitoring and/or Record Keeping Requirements

**1.** The permittee shall maintain monthly records of the following information:

a. the limestone production rate for each month; and

b. the rolling, 12- month summation of the limestone production rates.

## IV. Reporting Requirements

**1.** The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.

**2.** The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

## V. Testing Requirements

**1.** Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

**1.a** Emission Limitation:
Opacity limit for visible particulate emissions

Applicable Compliance Method:
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**1.b** Emissions Limitation:
132.7 tons per year of particulate emissions(PE).

Applicable Compliance Method:
Compliance shall be based upon the use of the emission factors as specified in AIRS, the limestone production rate, and the operating hours.

Topsoil removal(PE) = PR x 0.05 lb PE/ ton of topsoil x CE x TS/2000,

Blasting(PE) = PR x 0.16 lb PE/ ton of stone x CE/2000,

Loading(PE) = PR x 0.1 lb PE/ton of stone X CE/2000, and

Overburden removal(PE) = 3.94 lb PE/hr of operation x HPY x CE/2000

Total PE = the sum of the above four results

where
PR = the annual limestone production rate,
CE = control efficiency, assumed to be 0.5 for wet suppression,
TS = 0.125 lb topsoil removed per lb of limestone produced, and
HPY = 4600 hours per year (this is a maximum assumption, using maximum plant operating hours)

## VI. Miscellaneous Requirements

**None**

## B. State Enforceable Section

### I. Applicable Emissions Limitations and/or Control Requirements

**1.** The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

| Operations, Property, and/or Equipment | Applicable Rules/ Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Linestone mining operations | | |

**2. Additional Terms and Conditions**

**None**

### II. Operational Restrictions

**None**

### III. Monitoring and/or Record Keeping Requirements

**None**

### IV. Reporting Requirements

**None**

### V. Testing Requirements

**None**

### VI. Miscellaneous Requirements

**None**

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