



State of Ohio Environmental Protection Agency

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

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 02-15074**

**DATE: 10/4/2001**

East Fairfield Coal Company  
Gary Schaefer  
PO Box 217 10900 South Ave  
North Lima, OH 44452-0217

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

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

You are hereby notified that this action 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  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

NEDO



---

**Permit To Install  
Terms and  
Conditions**

---

**Issue Date: 10/4/2001  
Effective Date: 10/4/2001**

---

**FINAL PERMIT TO INSTALL 02-15074**

Application Number: 02-15074  
APS Premise Number: 0250001002  
Permit Fee: **\$2000**  
Name of Facility: East Fairfield Coal Company  
Person to Contact: Gary Schaefer  
Address: PO Box 217 10900 South Ave  
North Lima, OH 44452-0217

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**Garfield Rd  
Petersburg, Ohio**

Description of proposed emissions unit(s):  
**Roadways & parking areas; storage piles; crushing & sizing plant; 3 diesel generators,  
limestone mine.**

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 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. 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

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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

East Fairfield Coal Company  
PTI Application: 02-15074  
Issued: 10/4/2001

Facility ID: 0250001002

**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>
Particulate	92.9
Nitrogen Oxides	98.3
Carbon Monoxide	16.9
Sulfur Dioxide	10.6
Organic Compounds	5.5



**East F**  
**PTI A**  
**Issued: 10/4/2001**

Emissions Unit ID: **B001**

Applicable Emissions  
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 1.0 pound per hour and 0.95 ton/year.

Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 33.2 pounds per hour and 31.5 tons/year.

Carbon monoxide (CO) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Organic compound (OC) emissions shall not exceed 1.3 pounds per hour and 1.2 tons/year.

Annual NO<sub>x</sub> emissions for facility-  
See B.2.

Except as provided by rule, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average.

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** The total annual emissions of NO<sub>x</sub> from all emissions units at this facility (B001, B002, and B003) shall be limited to 98.3 tons, as a rolling, 12-month summation. This annual facility NO<sub>x</sub> emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

**B. Operational Restrictions**

1. The permittee shall burn only number two (2) diesel fuel oil in this emissions unit.
2. The maximum quantity of diesel fuel which may be burned in emissions units B001, B002, and B003 shall not exceed 456,000 gallons per year based on a rolling 12-month summation of fuel usage.
3. To ensure enforceability during the first twelve months of operation following start-up of emissions units B001, B002, & B003, the permittee shall not exceed the total combined diesel fuel usage limitations for all three emissions units as specified in the following table:

<u>CALENDAR MONTH(S) FOLLOWING STARTUP</u>	<u>ALLOWABLE CUMULATIVE TOTAL GALLONS OF FUEL BURNED</u>
1	114,000
1-2	114,000
1-3	114,000
1-4	152,000
1-5	190,000
1-6	228,000
1-7	266,000
1-8	304,000
1-9	342,000
1-10	380,000
1-11	418,000
1-12	456,000

After the first 12 calendar months of operation following start-up of emissions units B001, B002, & B003, compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. The total volume (in gallons) of low sulfur No. 2 diesel fuel burned in emissions units B001, B002, & B003; and
  - b. The total hours of operation of emissions units B001, B002, & B003.
2. The permittee shall maintain monthly records of the following information:
  - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of total combined diesel fuel usage for emissions units B001, B002, & B003.

Also, during the first 12 calendar months of operation following start-up, the permittee shall record the cumulative diesel fuel usage for each calendar month.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit an annual report which summarizes the following information:
  - a. the monthly and annual volume (in gallons) of total diesel fuel burned in emissions units B001, B002, & B003;
  - b. the total monthly and annual hours of operation of emissions units B001, B002, & B003); and
  - c. the total annual emissions of NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, and total OC from emissions units B001, B002, & B003 collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

## E. 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:

a. Emissions Limitation:

1.0 pound per hour and 0.95 ton 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, section 3.4, table 3.4-1 (0.31 grams of PE per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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).

b. Emissions Limitation:

3.6 pound per hour and 3.4 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, section 3.4, table 3.4-1 (1.1 grams of SO<sub>x</sub> per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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).

c. Emissions Limitation:

33.2 pound per hour and 31.5 tons per year of nitrogen oxide emissions

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (10.1 grams of NO<sub>x</sub> per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams.

12

**East F**

**PTI A**

**Issued: 10/4/2001**

Emissions Unit ID: **B001**

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 NO<sub>x</sub> 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.

- d. Emissions Limitation:  
3.6 pound per hour and 3.4 tons per year of carbon monoxide emissions  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor supplied by the manufacturer (1.1 grams of CO per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- e. Emissions Limitation:  
1.3 pound per hour and 1.2 tons per year of organic compound emissions  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.41 grams of OC per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- g. Emissions Limitation:  
A maximum of 456,000 gallons per year based on a rolling, 12-month summation of fuel usage which may be burned in emissions units B001, B002, and B003.

**East Fairfield Coal Company**  
**PTI Application: 02-15074**  
**Issued**

**Facility ID: 0250001002**

Emissions Unit ID: **B001**

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping specified in Section C.1.

15

**East F**

**PTI A**

**Issued: 10/4/2001**

Emissions Unit ID: **B001**

**F. Miscellaneous Requirements**

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: A., B., C., D., and E.

**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>	
B002 - diesel generator	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(a)
		OAC rule 3745-18-06(G)
	OAC rule 3745-35-07(D)	
	OAC rule 3745-17-07(A)(1)	

**East F**  
**PTI A**  
**Issued: 10/4/2001**

Emissions Unit ID: **B002**

Applicable Emissions  
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 1.0 pound per hour and 0.95 ton/year.

Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 33.2 pounds per hour and 31.5 tons/year.

Carbon monoxide (CO) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Organic compound (OC) emissions shall not exceed 1.3 pounds per hour and 1.2 tons/year.

Annual NO<sub>x</sub> emissions for facility-  
See B.2.

Except as provided by rule, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average.

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

**2.a** The total annual emissions of NO<sub>x</sub> from all emissions units at this facility (B001, B002, and B003) shall be limited to 98.3 tons, as a rolling, 12-month summation. This annual facility NO<sub>x</sub> emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

**B. Operational Restrictions**

1. The permittee shall burn only number two (2) diesel fuel oil in this emissions unit.
2. The maximum quantity of diesel fuel which may be burned in emissions units B001, B002, and B003 shall not exceed 456,000 gallons per year based on a rolling 12-month summation of fuel usage.
3. To ensure enforceability during the first twelve months of operation following start-up of emissions units B001, B002, & B003, the permittee shall not exceed the total combined diesel fuel usage limitations specified in the following table:

<u>CALENDAR MONTH(S) FOLLOWING STARTUP</u>	<u>ALLOWABLE CUMULATIVE TOTAL GALLONS OF FUEL BURNED</u>
1	114,000
1-2	114,000
1-3	114,000
1-4	152,000
1-5	190,000
1-6	228,000
1-7	266,000
1-8	304,000
1-9	342,000
1-10	380,000
1-11	418,000
1-12	456,000

After the first 12 calendar months of operation following start-up of emissions units B001, B002, & B003, compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. The total volume (in gallons) of low sulfur No. 2 diesel fuel burned in emissions units B001, B002, & B003; and
  - b. The total hours of operation of emissions units B001, B002, & B003.
2. The permittee shall maintain monthly records of the following information:
  - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of total combined diesel fuel usage for emissions units B001, B002, & B003.

Also, during the first 12 calendar months of operation following start-up, the permittee shall record the cumulative diesel fuel usage for each calendar month.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit an annual report which summarizes the following information:
  - a. the monthly and annual volume (in gallons) of total diesel fuel burned in emissions units B001, B002, & B003;
  - b. the total monthly and annual hours of operation of emissions units B001, B002, & B003); and
  - c. the total annual emissions of NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, and total OC from emissions units B001, B002, & B003 collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

**E. 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:

a. Emissions Limitation:

1.0 pound per hour and 0.95 ton 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 , section 3.4, table 3.4-1 (0.31 grams of PE per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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).

b. Emissions Limitation:

3.6 pound per hour and 3.4 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 , section 3.4, table 3.4-1 (1.1 grams of SOx per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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).

c. Emissions Limitation:

33.2 pound per hour and 31.5 tons per year of nitrogen oxide emissions

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (10.1 grams of NOx per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by lb/ 453.6 grams. Tons per

Emissions Unit ID: B002

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.

- d. Emissions Limitation:  
 3.6 pound per hour and 3.4 tons per year of carbon monoxide emissions  
 Applicable Compliance Method:  
 Compliance shall be based upon the use of an emission factor supplied by the manufacturer (1.1 grams of CO per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- e. Emissions Limitation:  
 1.3 pound per hour and 1.2 tons per year of organic compound emissions  
 Applicable Compliance Method:  
 Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.41 grams of OC per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- g. Emissions Limitation:  
 A maximum of 456,000 gallons per year based on a rolling, 12-month summation of fuel usage which may be burned in emissions units B001, B002, and B003.

Applicable Compliance Method:

22

**East F**

**PTI A**

**Issued: 10/4/2001**

Emissions Unit ID: **B002**

Compliance shall be based upon the recordkeeping specified in Section C.1.

**F. Miscellaneous Requirements**

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: A., B., C., D., and E.

**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>	
B003 - diesel generator	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)(5)(a)
		OAC rule 3745-18-06(G)
	OAC rule 3745-35-07(D)	
	OAC rule 3745-17-07(A)(1)	

3745-31-05(A)(3).

Applicable Emissions  
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 1.0 pound per hour and 0.95 ton/year.

Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 33.2 pounds per hour and 31.5 tons/year.

Carbon monoxide (CO) emissions shall not exceed 3.6 pounds per hour and 3.4 tons/year.

Organic compound (OC) emissions shall not exceed 1.3 pounds per hour and 1.2 tons/year.

Annual NO<sub>x</sub> emissions for facility- See B.2.

Except as provided by rule, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average.

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emission limitations specified by this rule are less stringent than the emission limitation established pursuant to OAC rule

**2. Additional Terms and Conditions**

- 2.a** The total annual emissions of NO<sub>x</sub> from all emissions units at this facility (B001, B002, and B003) shall be limited to 98.3 tons, as a rolling, 12-month summation. This annual facility NO<sub>x</sub> emission limitation shall be achieved by restricting the maximum quantity of diesel fuel burned.

**B. Operational Restrictions**

1. The permittee shall burn only number two (2) diesel fuel oil in this emissions unit.
2. The maximum quantity of diesel fuel which may be burned in emissions units B001, B002, and B003 shall not exceed 456,000 gallons per year based on a rolling 12-month summation of fuel usage.
3. To ensure enforceability during the first twelve months of operation following start-up of emissions units B001, B002, & B003, the permittee shall not exceed the total combined diesel fuel usage limitations specified in the following table:

<u>CALENDAR MONTH(S) FOLLOWING STARTUP</u>	<u>ALLOWABLE CUMULATIVE TOTAL GALLONS OF FUEL BURNED</u>
1	114,000
1-2	114,000
1-3	114,000
1-4	152,000
1-5	190,000
1-6	228,000
1-7	266,000
1-8	304,000
1-9	342,000
1-10	380,000
1-11	418,000
1-12	456,000

After the first 12 calendar months of operation following start-up of emissions units B001, B002, & B003, compliance with the annual diesel fuel usage limitation shall be based on a rolling, 12-month summation of the fuel usage.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. The total volume (in gallons) of low sulfur No. 2 diesel fuel burned in emissions units B001, B002, & B003; and
  - b. The total hours of operation of emissions units B001, B002, & B003.
2. The permittee shall maintain monthly records of the following information:
  - a. Beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12-month summation of total combined diesel fuel usage for emissions units B001, B002, & B003.

Also, during the first 12 calendar months of operation following start-up, the permittee shall record the cumulative diesel fuel usage for each calendar month.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month fuel usage limitation and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative diesel fuel usage. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
2. The permittee shall submit an annual report which summarizes the following information:
  - a. the monthly and annual volume (in gallons) of total diesel fuel burned in emissions units B001, B002, & B003;
  - b. the total monthly and annual hours of operation of emissions units B001, B002, & B003); and
  - c. the total annual emissions of NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, and total OC from emissions units B001, B002, & B003 collectively for the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

## E. 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:

- a. Emissions Limitation:

1.0 pound per hour and 0.95 ton 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, section 3.4, table 3.4-1 (0.31 grams of PE per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/453.6 grams. 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).

- b. Emissions Limitation:

3.6 pound per hour and 3.4 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, section 3.4, table 3.4-1 (1.1 grams of SO<sub>x</sub> per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/453.6 grams. 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).

- c. Emissions Limitation:

33.2 pound per hour and 31.5 tons per year of nitrogen oxide emissions

Applicable Compliance Method:

Compliance shall be based upon the use of an emission factor supplied by the manufacturer (10.1 grams of NO<sub>x</sub> per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/453.6 grams. 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 NO<sub>x</sub> 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.

- d. Emissions Limitation:  
3.6 pound per hour and 3.4 tons per year of carbon monoxide emissions  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor supplied by the manufacturer (1.1 grams of CO per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- e. Emissions Limitation:  
1.3 pound per hour and 1.2 tons per year of organic compound emissions  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor supplied by the manufacturer (0.41 grams of OC per hp-hr) and the maximum rating of this emissions unit (1493 HP) multiplied by 1 lb/ 453.6 grams. 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.

- g. Emissions Limitation:  
A maximum of 456,000 gallons per year based on a rolling 12-month summation of fuel

**East Fairfield Coal Company**  
**PTI Application: 02-15074**  
**Issued**

**Facility ID: 0250001002**

Emissions Unit ID: **B003**

usage which may be burned in emissions units B001, B002, and B003.

Applicable Compliance Method:

Compliance shall be based upon the recordkeeping specified in Section C.1.

**F. Miscellaneous Requirements**

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: A., B., C., D., and E.

## 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>
F001 -unpaved roadways and parking areas	OAC rule 3745-31-05(A)(3)	no visible particulate emissions except for 13 minutes during any 60- minute period
		best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g)
		11.7 tpy particulate emissions (see Section A.I.2.h)
	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).

### 2. Additional Terms and Conditions

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

unpaved roadways:

all roadways

unpaved parking areas:

all parking areas

- 2.b 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 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.c 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 an 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.d Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for six minutes during any 60-minute period.
- 2.e 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.f 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.g Implementation of the above-mentioned control measures in accordance with the terms

**East Fairfield Coal Company**  
**PTI Application: 02-15074**  
**Issued**

**Facility ID: 0250001002**

Emissions Unit ID: **F001**

and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

- 2.h The 11.7 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.

**B. Operational Restrictions**

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

**C. Monitoring and/or Recordkeeping Requirements**

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

unpaved roadways	minimum inspection frequency
------------------	------------------------------

all roads	daily
-----------	-------

unpaved parking areas	minimum inspection frequency
-----------------------	------------------------------

all parking areas	daily
-------------------	-------

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee 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.
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 updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **D. Reporting Requirements**

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

#### **E. Testing Requirements**

1. Compliance with the emission limitation for the 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:

11.7 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 13.2.2.

#### **F. Miscellaneous Requirements**

37

**East Fairfield Coal Company**  
**PTI Application: 02-15074**  
**Issued**

**Facility ID: 0250001002**

**Emissions Unit ID: F001**

None

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002- load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	no visible emissions except for one minute in any hour
		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)
	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 3745-31-05(A)(3)	no visible emissions except for one minute in any hour
		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)
	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).
all storage pile operations	all storage pile operations	14.7 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(A)(3) are listed below:
- Ohio sized #2, #4, #8, #57, #304, and fines aggregate storage piles
- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the 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 14.7 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.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

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

storage pile identification	minimum load-in inspection frequency
Ohio sized #2, #4, #8, #57, #304, and fines aggregate 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 #2, #4, #8, #57, #304, and fines aggregate storage piles	daily

- 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 #2, #4, #8, #57, #304, and fines aggregate 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.

#### **D. Reporting Requirements**

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

**East Fairfield Coal Company**  
**PTI Application: 02-15074**  
**Issued**

**Facility ID: 0250001002**

**Emissions Unit ID: F002**

**E. Testing Requirements**

1. Compliance with the visible 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)(c) 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:

14.7 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.

**F. Miscellaneous Requirements**

None

**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>
F003 - primary crusher and screen	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 and at the screening operations.
	OAC rule 3745-31-05(A)(3)	See B.1.  4.0 TPY particulate emission(PE)
	OAC rule 3745-35-07(D)	Annual PE emission for facility--See B.2.
	OAC rule 3745-17-08	This rule does not apply per OAC rule 3745-17-08 (A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

**2. Additional Terms and Conditions**

**2.a** None

**B. 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 500,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	125,000 tons
1-2	125,000 tons
1-3	125,000 tons
1-4	166,667 tons
1-5	208,333 tons
1-6	250,000 tons
1-7	291,667 tons
1-8	333,333 tons
1-9	375,000 tons
1-10	416,667 tons
1-11	458,333 tons
1-12	500,000 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12- month summation of the production rates.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12- month summation of the limestone production rates.

Also, during the first 12 calendar months of operation following startup, the permittee shall record the cumulative limestone production rate for each calendar month.

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.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative production rate. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
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 quarterly 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.

#### **E. 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):
  - 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.

- b. Emissions Limitation:  
 4.0 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) =  $PR \times 0.0007 \text{ lb PE/ ton of stone} \times CE/2000$

and

Primary screening(PE) =  $PR \times 0.0315 \text{ lb PE/ ton of stone} \times CE/2000$

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.

## **F. Miscellaneous Requirements**

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745- 35- 07: A., B., C., D., and E.

## 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 - secondary crusher and screening	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 and at the screening operations.
	OAC rule 3745-31-05(A)(3)	See B.1.
	OAC rule 3745-35-07(D)	22.6 TPY particulate emission(PE) Annual PE emission for facility--See B.2.
	OAC rule 3745-17-08	This rule does not apply per OAC rule 3745-17-08 (A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

### 2. Additional Terms and Conditions

- 2.a None

**B. 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 500,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	125,000 tons
1-2	125,000 tons
1-3	125,000 tons
1-4	166,667 tons
1-5	208,333 tons
1-6	250,000 tons
1-7	291,667 tons
1-8	333,333 tons
1-9	375,000 tons
1-10	416,667 tons
1-11	458,333 tons
1-12	500,000 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12- month summation of the production rates.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and

- b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12- month summation of the limestone production rates.

Also, during the first 12 calendar months of operation following startup, the permittee shall record the cumulative limestone production rate for each calendar month.

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.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative production rate. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
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 quarterly 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.

#### **E. 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):

- 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.

- b. Emissions Limitation:  
22.6 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.

Secondary crusher(PE) =  $PR \times 0.0315 \text{ lb PE/ ton of stone} \times CE/2000$

and

Secondary screening(PE) =  $PR \times 0.149 \text{ lb PE/ ton of stone} \times CE/2000$

and

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

where

PR = the annual limestone production rate, and

CE = control efficiency, assumed to be 0.50 for secondary wet suppression.

**F. Miscellaneous Requirements**

- The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745- 35- 07: A., B., C., D., and E.

**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>
F005 - tertiary crushing and screening	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 and at the screening operations.
	OAC rule 3745-31-05	See B.1.  0.37 TPY particulate emission(PE)
	OAC rule 3745-35-07(D)	Annual PE emission for facility--See B.2.
	OAC rule 3745-17-08	This rule does not apply per OAC rule 3745-17-08 (A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

**2. Additional Terms and Conditions**

**2.a** None

52

**East F**

**PTI A**

**Issued: 10/4/2001**

Emissions Unit ID: **F005**

**B. Operational Restrictions**

1. The permittee shall control fugitive dust emissions by using water sprays or water suppression 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 500,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	125,000 tons
1-2	125,000 tons
1-3	125,000 tons
1-4	166,667 tons
1-5	208,333 tons
1-6	250,000 tons
1-7	291,667 tons
1-8	333,333 tons
1-9	375,000 tons
1-10	416,667 tons
1-11	458,333 tons
1-12	500,000 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12- month summation of the production rates.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and

Emissions Unit ID: F005

- b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12- month summation of the limestone production rates.

Also, during the first 12 calendar months of operation following startup, the permittee shall record the cumulative limestone production rate for each calendar month.

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.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative production rate. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
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 quarterly 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.

#### **E. 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):
  - 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.

- b. Emissions Limitation:  
 0.37 ton 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.

Tertiary crusher(PE) = PR x 0.00124 lb PE/ ton of stone x CE/2000

and

Tertiary screening(PE) = PR x 0.00176 lb PE/ ton of stone x CE/2000

and

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

where

PR = the annual limestone production rate, and

CE = control efficiency, assumed to be 0.50 for secondary wet suppression.

## **F. Miscellaneous Requirements**

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745- 35- 07: A., B., C., D., and E.

## 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>
F006 - logwasher, sand screen, and cyclones	40 CFR Part 60, Subpart OOO	Visible emissions shall not exceed 15 percent opacity at the logwasher. Visible emissions shall not exceed 10 percent opacity at any transfer point on the belt conveyors and at the sand screen and cyclones.
	OAC rule 3745-31-05(A)(3)	See B.1.
	OAC rule 3745-35-07(D)	0.37 TPY particulate emission(PE)
	OAC rule 3745-35-07(D)	Annual PE emission for facility- See B.2.
	OAC rule 3745-17-08	This rule does not apply per OAC rule 3745-17-08 (A)(1).
	OAC rule 3745-17-07(A)(1)	The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR Part 60, Subpart OOO.

### 2. Additional Terms and Conditions

- 2.a None

**B. Operational Restrictions**

1. The permittee shall control fugitive dust emissions by using water sprays or water suppression at the logwasher, at the belt conveyor, and at the sand screen and cyclones and by minimizing the free fall distance of material.
2. The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year of limestone, based upon a rolling, 12-month summation of the production rates.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	125,000 tons
1-2	125,000 tons
1-3	125,000 tons
1-4	166,667 tons
1-5	208,333 tons
1-6	250,000 tons
1-7	291,667 tons
1-8	333,333 tons
1-9	375,000 tons
1-10	416,667 tons
1-11	458,333 tons
1-12	500,000 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. beginning after the first 12 calendar months of operation following startup of this

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

Also, during the first 12 calendar months of operation following startup, the permittee shall record the cumulative limestone production rate for each calendar month.

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.

#### **D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative production rate. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
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 quarterly 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.

#### **E. 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):

- 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.

- b. Emissions Limitation:  
 0.37 ton 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.

$\text{Logwasher(PE)} = \text{PR} \times 0.00124 \text{ lb PE/ ton of stone} \times \text{CE}/2000$

and

$\text{Sand screen, cyclones(PE)} = \text{PR} \times 0.00176 \text{ lb PE/ ton of stone} \times \text{CE}/2000$

and

$\text{Total PE} = \text{Logwasher(PE)} + \text{Sand screen, cyclones(PE)},$

where

PR = the annual limestone production rate, and

CE = control efficiency, assumed to be 0.50 for wet suppression.

## F. Miscellaneous Requirements

- The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: A., B., C., D., and E.

## 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>
F007 - limestone mine	OAC rule 3745-31-05(A)(3)	Visible emissions shall not exceed 20 percent opacity as a three- minute average, for material removal operations, material loading operations, and drilling operations.  See B.1., 4., 5., 6., and 7.
	OAC rule 3745-35-07(D)	35.9 TPY particulate emissions(PE)  Annual PE emission for facility- See B.2.
	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

- 2.a None

### B. 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 500,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.
3. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month	Maximum Allowable Cumulative Production
1	125,000 tons
1-2	125,000 tons
1-3	125,000 tons
1-4	166,667 tons
1-5	208,333 tons
1-6	250,000 tons
1-7	291,667 tons
1-8	333,333 tons
1-9	375,000 tons
1-10	416,667 tons
1-11	458,333 tons
1-12	500,000 tons

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12- month summation of the production rates.

4. The permittee shall not overload the haul trucks with extracted aggregate material, in order to minimize spillage and windage losses.
5. The permittee shall only use an adequate amount of explosives to prevent overshooting during blasting.
6. 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.
7. The permittee shall use and maintain a dust control system during all drilling operations to prevent

fugitive dust from becoming airborne.

**C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. beginning after the first 12 calendar months of operation following startup of this emissions unit, the rolling, 12- month summation of the limestone production rates.

Also, during the first 12 calendar months of operation following startup, the permittee shall record the cumulative limestone production rate for each calendar month.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation, and, for the first 12 calendar months of operation following startup of this emissions unit, all exceedances of the maximum allowable cumulative production rate. These reports are due by the date described in Part I - General Terms and Conditions of this permit under section (A)(1).
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.

**E. 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):
  - 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.
  - b. Emissions Limitation:  
35.9 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 = 2600 hours per year (this is a maximum assumption, using maximum plant operating hours)

## F. Miscellaneous Requirements

1. The following Terms and Conditions have been incorporated into this permit in order to establish federally enforceable limitations on potential to emit, pursuant to OAC Rule 3745-35-07: A., B., C., D., and E.