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Facility Name: **East Fairfield Coal Company**

Application Number: **02-2584**

Date: **June 30, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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

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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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement

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of operation.

SOURCE OPERATION 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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **East Fairfield Coal Company** located in **Mahoning** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

Ohio
EPA
Source
Number

Source
Identification
Description

F006

Tertiary limestone
crushing operation

B001
Cont'd

B001

1250 HP No. 2 diesel
fuel-powered
generator

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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BAT
Determination

Wet screening.
Use of water
sprays to
minimize
fugitive dust.
Minimize
freefall
distance.

Use of No. 2
diesel fuel

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
		3745-17-11 (B)	Permit Allowable Mass Emissions and/or Control/Usage Requirements	2.5 pounds/hour and 6.0 TPY OC
	Applicable Federal & OAC Rules	3745-17-07		*
		3745-18-06 (G)		*
3745-31-05			Visible emissions from this source shall not exceed 15 percent opacity; 0.3 ton per year PM	*
	3745-17-07 (B) (1)		*	
	40 CFR Part 60, Subpart 000		*	
3745-31-05			Visible emissions shall not exceed 20 percent opacity as a 6-minute average; 0.75 pound/hour and 1.8 TPY PM; 6.0 pounds/hour and 14.4 TPY SO _x ; 38.6 pounds/hour and 92.6 TPY NO _x ; 8.0 pounds/hour and 19.2 TPY CO;	

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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* The listed rule is less stringent or equivalent to BAT.

SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	2.1
SO _x	14.4
NO _x	92.6
CO	19.2
OC	6.0

NSPS REQUIREMENTS

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

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<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F006	Tertiary crushing	000

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

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

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

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Management Unit
 P.O. Box 163669
 Columbus, OH 43216-3669

and **Ohio EPA, Northeast District Office**
2110 E. Aurora Road
Twinsburg, OH 44087

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than three years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any

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representative of the Director, for review during normal business hours.

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WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Source Description

1. The emission units covered by this Permit to Install are: a Tertiary Limestone Crusher and a 1250 HP Diesel Generator.

B. Emission Limitations

1. The NO_x emissions from this facility (emissions from diesel generator) shall not exceed 38.6 lbs per hour or 92.6 tons per year.
2. The SO_x emissions from this facility (emissions from diesel generator) shall not exceed 20.9 lbs per hour or 50.2 tons per year.
3. The PM emissions from this facility (emissions from diesel generator) shall not exceed 0.75 lb per hour or 1.8 tons per year.
4. The CO emissions from this facility (emissions from diesel generator) shall not exceed 8.0 lbs per hour or 19.2 tons per year.
5. The OC emissions from this facility (emissions from diesel generator) shall not exceed 2.5 lbs per hour or 6 tons per year.

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C. Annual Operating Limitations

1. The maximum annual operating hours for this emissions unit shall not exceed 4800, based upon a rolling, 12-month summation of the operating hours.
2. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Operating Hours</u>
1	600
1-2	1,200
1-3	1,800
1-4	2,400
1-5	3,000
1-6	3,600
1-7	4,200
1-8	4,800
1-9	4,800
1-10	4,800
1-11	4,800
1-12	4,800

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

D. Visible Emission Limitations

1. Tertiary Crushing and Screening Operations: There shall be no visible particulate emissions greater than 15 percent opacity.
2. Diesel Generator: Visible emissions shall not exceed 20 percent opacity, as a six minute average.

E. Recordkeeping and Reporting Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit,

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the rolling, 12-month summation of the operating hours.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative operating hours for each calendar month.

2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month operating hours limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative operating hours levels.
3. 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 Ohio EPA, Northeast District Office; and,
 - 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 Ohio EPA, Northeast District Office. 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).

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F. Operational Practice

1. Limestone crushing and screening operations shall control fugitive dust by using water sprays at all reasonable times, and by minimizing free fall distance of material.

G. Testing Requirements

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

a. Emission Limitation

0.75 lb Particulate Matter (PM) per hour and 1.8 tons per year

Applicable Compliance Method

Multiply the particulate emissions factor of 0.062 * pounds of particulate emissions per million BTU(MMBTU) actual heat input by 12.05 MMBTU per hour, the maximum firing rate of the diesel generator (Emission factor * from OAC 3745-17-11(B)(5)). Tons per year shall be calculated multiplying pounds per hour by hours of operation per year and dividing by 2000.

b. Emission Limitation

6.0 lb Sulfur Dioxide(SO_x) per hour and 14.4 tons per year

Applicable Compliance Method

Multiply the SO_x factor of 0.5* lbs per MMBTU emissions per 12.05 MMBTU per hour, the maximum firing rate of the diesel generator (Emission factor * from OAC 3745-18-06(G)). Tons per year shall be calculated multiplying pounds per hour by hours of operation per year and dividing by 2000.

c. Emission Limitation

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2.5 lbs Organic Compounds(CO) per hour and 6.0 tons per year

Applicable Compliance Method

Multiply the OC factor of 0.91* gram emissions per HP-hr by 1250 HP, the maximum firing rate of the diesel generator (Emission factor * from manufacturer's data). Tons per year shall be calculated multiplying pounds per hour by hours of operation per year and dividing by 2000.

- d. 38.6 lb Nitrogen Oxides(NO_x) per hour and 92.6 tons per year

Applicable Compliance Method

Multiply the NO_x factor of 14* grams emissions per HP-hr by 1250 HP, the maximum firing rate of the diesel generator (Emission factor * from manufacturer's data). Tons per year shall be calculated multiplying pounds per hour by hours of operation per year and dividing by 2000.

- e. 8.0 lbs Carbon Monoxide(CO) per hour and 19.2 tons per year

Applicable Compliance Method

Multiply the CO factor of 0.91* gram emissions per HP-hr by 1250 HP, the maximum firing rate of the diesel generator (Emission factor * from manufacturer's data). Tons per year shall be calculated multiplying pounds per hour by hours of operation per year and dividing by 2000.

H. Federal Enforceability

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: 2, 3, and 5.