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Facility Name: **E Ohio Gas-Fearing Compressor Station**

Application Number: **06-5387**

Date: **November 23, 1998**

### **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.

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### **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 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 &amp; 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 **E Ohio Gas-Fearing Compressor Station** located in **Washington** 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.

(A)

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>
B001	500 HP compressor engine - ID No. 7301	Use of natural gas and compliance with all applicable regulations	3745-31-05 (A) (3) 3745-17-11 (B) (5) (b)

3745-17-07

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	Btu of actual heat input			
Permit Allowable Mass Emissions and/or Control/Usage Requirements	0.39 pound/hour			
	1.38 tons/year			
	Rolling twelve month operating limit of 7,000 hours.			
CO:	Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.			
15.5 pounds/hour				
54.25 tons/year				
NO <sub>x</sub> :				
11.04 pounds/hour				
38.64 tons/year				
VOC:				
2.2 pounds/hour				
7.7 tons/year				
PM:				
0.310 pound per million				

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SUMMARY  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
CO	54.25
NO <sub>x</sub>	38.64
VOC	7.7
PM	1.38

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

**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.

**MAINTENANCE OF EQUIPMENT**

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

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**MALFUNCTION/ABATEMENT**

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution 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.

**NINETY DAY OPERATING PERIOD**

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**A. Operational Restrictions**

1. Operation of the 500 hp Natural Gas Compressor shall not exceed 7,000 hours per year on a rolling 12-month total.

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

1. The permittee shall maintain monthly records of the hours of operation, based on a rolling twelve-month

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summation.

**C. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports of any monthly record which shows that the hours of operation exceed 7,000 hours based on a rolling 12 month summation. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Southeast District Office within 45 days after the end of the month during which the exceedance occurs.

**D. Testing/Compliance Determination**

1. Emission Limitation

PM

0.31 lb/MMBtu, 0.39 lb/hr, and 1.38 tons/yr

Applicable Compliance Method

Compliance with the particulate matter emission limit of 0.31 pound per million Btu of actual heat input is demonstrated by use of the AP-42, 5th Edition emission factor, table 3.2-4, for Heavy Duty Natural Gas Fired Pipeline Compressor Engines (0.029 lb of particulate matter/million Btu of actual heat input). Compliance with the particulate matter emission limits 0.39 pound per hour and .1.38 ton per year shall be determined by using the emission factor 0.029 lb of particulate matter/million Btu of actual heat X 1.27 million Btu heat input per hour = 0.039 pound per hour X 7,000 hours of operation per year = .128 ton per year. Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

2. Emission Limitation

20 percent opacity

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Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

3. Emission Limitation

CO  
15.5 lbs/hr, and 54.25 tons/yr

Applicable Compliance Method

Compliance shall be based upon the manufacturer's emission rate of 15.5 lbs./hr. X 7,000 hrs/yr = 54.25 tons/yr.

4. Emission Limitation

NO<sub>x</sub>  
11.04 lbs/hr, and 38.64 tons/yr.

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Applicable Compliance Method

Compliance shall be based upon the manufacturer's emission rate of 11.04 lbs./hr. X 7,000 hrs/yr = 38.64 tons/yr.

5. Emission Limitation

VOC  
2.2 lbs/hr

Applicable Compliance Method

Compliance shall be based upon the manufacturer's emission rate of 2.2 lbs./hr. X 7,000 hrs/yr = 7.7 tons/yr.