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Facility Name: **Caggs Compressor Station**

Application Number: **15-1350**

Date: **April 7, 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.

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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 **Caggs Compressor Station** located in **Stark** 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.

<u>Ohio EPA Source Number</u>	<u>Source Identification</u>	<u>Description</u>
P001	P001 Cont'd	140 HP, 1.13 MMBtu/hour, internal combustion, reciprocating, 4-cycle, natural gas-fired engine; used to power a compressor; Waukasha Engine No. 1 Model F1197GU
P002	P002 Cont'd	225 HP, 1.89

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Ohio EPA Source <u>Number</u>	Source Identification <u>Number</u>	BAT <u>Determination</u>	Applicable Federal & OAC Rules	Permit Allowable Mass Emissions and/or Control/Usage <u>Requirements</u>
MMBtu/h our, interna l combust ion, recipro cating, 4-cycle , high compres sion ratio, natural gas-fir ed engine; used to power a compres sor; Caterpi llar Engine No. 1 Model G342NA HCR				

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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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BAT  
Determination

Use of natural  
gas as the  
fuel (See  
Additional  
Special Terms  
and  
Conditions)

Use of natural gas  
as the fuel (See  
Additional Special  
Terms and  
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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>
			3745-31-05	
			<u>Applicable Federal &amp; OAC Rules</u>	
	3745-17-07 (A) (1)			
		3745-17-07 (A) (1)		
	3745-17-11 (B) (5) (a)			
	3745-18-06 (A)			
	3745-31-05	3745-17-11 (B) (5) (a)		
		3745-18-06 (A)		

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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>
		input; 0.11 pound/hour; 0.48 ton/year	PM:  0.1 pound/MMBtu 0.19 pound/hour; 0.83 ton/year	
	Permit Allowable Mass Emissions and/or Control/Usage Requirements	Nitrogen Oxides:  6.17 pounds/hour 27 tons/year	Nitrogen Oxides:  6.39 pounds/hour 28 tons/year	
	Visible particulate emissions from this emissions unit's stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.	Carbon Monoxide:  0.34 pound/hour 1.5 tons/year	Carbon Monoxide:  6.79 pounds/hour 29.7 tons/year	
	BAT is more restrictive 0.31 pound PM/MMBTU actual heat input	Organic Compounds:  0.06 pound/hour 0.3 ton/year	Organic Compounds:  0.89 pound/hour 3.9 tons/year	
	Exempt	Visible particulate emissions from this emissions unit's stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.		
	PM:	BAT is more restrictive 0.31 pound PM/MMBTU actual heat input		
	0.1 pound/MMBtu actual heat	Exempt		

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SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
OC	4.2
PM	1.31
NO <sub>x</sub>	55
CO	31.2

Note: The information contained under the Summary of Emissions section of the Permit to Install is for informational purposes only and is not enforceable.

**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.

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**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Canton Air Pollution Control, 420 Market Ave. North, Canton, OH 44702-1544.**

**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.

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**I. Emissions Unit P001 - Waukasha Engine No. 1**

**A. Operational Restrictions (P001)**

1. The only fuel to be burned in this emissions unit shall be natural gas.
2. This emissions unit shall be permanently removed from service when engine P002 is installed and ready for operation.

**B. Monitoring and/or Record Keeping Requirements (P001)**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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-charts, recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in

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computerized form.

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**C. Reporting Requirements (P001)**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas is burned in this emissions unit. Each report shall be submitted to the Canton Local Air Agency within 30 days after the deviation occurs.

**D. Compliance Methods and Testing Requirements (P001)**

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

a. Emission Limitation

Visible particulate emissions from this emissions unit's stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method

Compliance shall be determined by visible emission evaluations performed in accordance with procedures specified in OAC 3745-17-03 (B)(1) using the methods and procedures specified in USEPA Reference Method 9.

b. Emission Limitation

0.1 lb PM/MMBtu and 0.48 lb PM/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.13 MMBtu/hr) by the AP-42 Table 3.2-2 emission factor of 0.029 lb/MMBtu.

c. Emission Limitation

0.06 lb OC/hr

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Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.13 MMBtu/hr) by the manufacturer's emission factor of 0.053 lb OC/MMBtu.

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d. Emission Limitation

6.17 lbs NO<sub>x</sub>/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.13 MMBtu/hr) by the manufacturer's emission factor of 5.46 lbs NO<sub>x</sub>/MMBtu.

e. Emission Limitation

0.34 lb CO/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.13 MMBtu/hr) by the manufacturer's emission factor of 0.3 lb CO/MMBtu.

f. Emission Limitation

1.53 tons PM/yr, 0.3 ton OC/yr, 27 tons NO<sub>x</sub>/yr and 1.5 tons CO/yr

Applicable Compliance Method

Multiply the hourly emission rate limit times 8,760 hours/year and then divide by 2,000 lbs/ton.

**E. Miscellaneous Requirements (P001)**

1. None.

**II. Emissions Unit P002 - Caterpillar Engine #1**

**A. Operational Restrictions (P002)**

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1. The only fuel to be burned in this emissions unit shall be natural gas.
2. When this emissions unit is installed and ready for operation, emissions unit P001 shall be permanently removed from service.

**B. Monitoring and/or Record Keeping Requirements (P002)**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. 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-charts, recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**C. Reporting Requirements (P002)**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas is burned in this emissions unit. Each report shall be submitted to the Canton Local Air Agency within 30 days after the deviation occurs.

**D. Compliance Methods and Testing Requirements (P002)**

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

a. Emission Limitation

Visible particulate emissions from this emissions unit's stack shall not exceed twenty percent opacity, as a six-minute average, except as provided by rule.

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Applicable Compliance Method

Compliance shall be determined by visible emission evaluations performed in accordance with procedures specified in OAC 3745-17-03 (B)(1) using the methods and procedures specified in USEPA Reference Method 9.

b. Emission Limitation

0.1 lb PM/MMBtu and 0.83 lb PM/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.89 MMBtu/hr) by the AP-42 Table 3.2-2 emission factor of 0.029 lb/MMBtu.

c. Emission Limitation

0.89 lb OC/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.89 MMBtu/hr) by the manufacturer's emission factor of 0.47 lb OC/MMBtu.

d. Emission Limitation

6.39 lbs NO<sub>x</sub>/hr

Applicable Compliance Method

Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.89 MMBtu/hr) by the manufacturer's emission factor of 3.38 lbs NO<sub>x</sub>/MMBtu.

e. Emission Limitation

6.79 lbs CO/hr

Applicable Compliance Method

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Compliance shall be based upon multiplying the maximum hourly gas-burning capacity of the emissions unit (1.89 MMBtu/hr) by the manufacturer's emission factor of 3.59 lbs CO/MMBtu.

f. Emission Limitation

2.58 tons PM/yr, 3.9 tons OC/yr, 28 tons NO<sub>x</sub>/yr and 29.7 tons CO/yr

Applicable Compliance Method

Multiply the hourly emission rate limit times 8,760 hours/year and then divide by 2,000 lbs/ton.

**E. Miscellaneous Requirements (P002)**

1. None.