

Facility ID: 1667000044 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1667000044 Emissions Unit ID: B001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired stationary small internal combustion engine (AJAX DPC-140 natural aspiration, 2-stroke/lean-burn, 134 HP maximum rated power output @ 1.09 mmBtu/hr maximum rated actual heat input) driving a natural gas compressor, particulate emissions (PE) and emissions of nitrogen oxides (NOx), carbon monoxide (CO), and total organic compounds (TOCs) uncontrolled.	OAC rule 3745-31-05(A)(3) (PTI 16-01943)	NOx emissions from this emissions unit shall not exceed 2.81 pounds per hour and 12.3 tons per year.
		TOC emissions from this emissions unit shall not exceed 1.74 pounds per hour and 7.6 tons per year.
		PE from this emissions unit shall not exceed 1.5 tons per year.
		Visible PE from the stack shall not exceed 1% opacity, as a 6-minute average.
	OAC rule 3745-17-11(B)(5)(a)	The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a) and 3745-18-06(B). PE shall not exceed 0.310 pound per million Btu of actual heat input for a stationary small internal combustion engine.
	OAC rule 3745-18-06(A)	Pursuant to OAC rule 3745-18-06(A), this emissions unit is exempt from OAC rule 3745-18-06(G) during any calendar day in which natural gas is the only fuel burned.
	OAC rule 3745-17-07(A)	The emissions limitation and control requirements specified by this rule are less stringent than the emissions limitations and control requirements established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The NOx and TOC emissions limits established pursuant to OAC rule 3745-31-05(A)(3) reflect the potential to emit for this emissions unit. In addition, the PE emissions limit established pursuant to OAC rule 3745-31-05(A)(3) and the PE limit from OAC rule 3745-17-11(B)(5)(a) are greater than the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure ongoing compliance with the NOx, TOC, and PE emissions limits. The permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed modification of equipment or production procedures, or any other change that would increase the potential emissions of any air pollutant.

B. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

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.

D. Reporting Requirements

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

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods using emissions data contained in the application:
Emission Limitations: NOx emissions from this emissions unit shall not exceed 2.81 pounds per hour and 12.3 tons per year.

Applicable Compliance Method: The above emissions limitations were established based upon the equations below:

$$H = NP(1 \text{ pound}/454 \text{ grams});$$

$$Y = H(8760 \text{ hours}/\text{year})(1 \text{ ton}/2000 \text{ pounds});$$

Where,

$$H = 2.81 \text{ pounds of NOx per hour [hourly potential emissions];}$$

$$Y = 12.3 \text{ tons of NOx per year [yearly potential emissions];}$$

$$N = 9.50 \text{ grams of NOx}/\text{HP-hr [manufacturer's stack test data]; and}$$

$$P = 134 \text{ Bhp [maximum rated power output].}$$

If required, compliance with the hourly NOx emissions limit shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 7E.

2. Emission Limitations: TOC emissions from this emissions unit shall not exceed 1.74 pounds per hour and 7.6 tons per year.

Applicable Compliance Method: The above emissions limitations were established based upon the equations below:

$$H = TP;$$

$$Y = H(8760 \text{ hours}/\text{year})(1 \text{ ton}/2000 \text{ pounds});$$

Where,

$$H = 1.74 \text{ pounds of TOC per hour [hourly potential emissions];}$$

$$Y = 7.6 \text{ tons of TOC per year [yearly potential emissions];}$$

$$T = 1.64 \text{ pound of TOC per million Btu heat input [AP-42, 7/00, Table 3.2-1, SCC 2-02-002-52]; and}$$

$$P = 1.09 \text{ million Btu per hour [maximum rated actual heat input].}$$

If required, compliance with the hourly TOC emissions limit shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 25 or Method 25A.

3. Emission Limitations: PE from this emissions unit shall not exceed 1.5 tons per year.

Applicable Compliance Method: The above emissions limitation is greater than the annual potential to emit, based upon the equation below:

$$Y = EP(8760 \text{ hours}/\text{year})(1 \text{ ton}/2000 \text{ pounds});$$

Where,

$$Y = 0.18 \text{ ton of PE per year [yearly potential emissions];}$$

$$E = 0.0384 \text{ pound of PE}^* \text{ per million Btu heat input [AP-42, 7/00, Table 3.2-1, SCC 2-02-002-52]; and}$$

$$P = 1.09 \text{ million Btu per hour [maximum rated actual heat input].}$$

*assumes all PE is PM10

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

4. Emission Limitation: PE shall not exceed 0.310 pound per million Btu of actual heat input for a stationary small internal combustion engine.

Applicable Compliance Method: This rule-established PE limit is greater than the emissions unit's potential to emit. Compliance with this PE limitation shall be based upon the use of the AP-42, 7/00, Table 3.2-1, SCC 2-02-002-52 emission factor:

$$E = 0.0384 \text{ pound of PE}^* \text{ per million Btu heat input.}$$

*assumes all PE is PM10

If required, compliance shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 5 and the methods and procedures specified in OAC rule 3745-17-03(B)(10).

5. Emission Limitation: Visible PE from the stack shall not exceed 1% opacity, as a 6-minute average.

Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 9 and the methods and procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None