

Facility ID: 1667000043 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: 1667000043 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 (CAT G3306 NA natural aspiration, 4-cycle/rich-burn, 149 HP maximum rated power output @ 1.12 mmBtu/hr maximum rated actual heat input) driving a natural gas compressor	OAC rule 3745-31-05 (PTI 16-1944)	5.25 pounds per hour ("lbs/hr") of nitrogen oxides ("NOx") 23.0 tons per year ("TPY") of NOx
		0.59 pound per hour ("lb/hr") of total organic compounds 2.6 TPY of total organic compounds
		Visible particulate emission shall not exceed 1% opacity from the stack, as a 6-minute average.
	OAC rule 3745-17-11	1.5 TPY of particulate emission
	OAC rule 3745-17-07	0.310 pound per million British thermal units ("lb/mmBtu") actual heat input of particulate emissions See 2.a below.

2. **Additional Terms and Conditions**
 - (a) The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established by best available technology under OAC rule 3745-31-05.

B. Operational Restrictions

1. This emissions unit shall be limited to only natural gas as fuel.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which this emissions unit burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned.

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 emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitations:

5.25 lbs/hr of NOx
23.0 TPY of NOx

Applicable Compliance Method:

The NOx emission limitations are based upon the emissions unit's potential to emit:

$(15.97 \text{ grams of NOx/HP-hr [manufacturer's stack test data]} \times (149 \text{ HP [maximum rated power output of engine]} \times (1 \text{ pound}/453.6 \text{ grams [mass conversion factor]})) = 5.25 \text{ lbs/hr NOx; and}$

$(5.25 \text{ lbs/hr nitrogen oxides}) \times (8760 \text{ hrs/yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 23.0 \text{ TPY NO}_x$

If required by Ohio EPA, compliance with the lbs/hr of NO_x limit shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7.

Emission Limitations:

0.59 lb/hr of total organic compounds
2.6 TPY of total organic compounds

Applicable Compliance Method:

The total hydrocarbons emission limitations are based upon the emissions unit's potential to emit:

$(1.81 \text{ grams of total organic compounds/HP-hr [manufacturer's stack test data]}) \times (149 \text{ HP [maximum rated power output of engine]}) \times (1 \text{ pound}/453.6 \text{ grams [mass conversion factor]}) = 0.59 \text{ lb/hr total organic compounds; and}$

$(0.59 \text{ lb/hr total organic compounds}) \times (8760 \text{ hrs/yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 2.6 \text{ TPY total organic compounds}$

If required by Ohio EPA, compliance with the lb/hr of total organic compounds limit shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 25.

Emission Limitation:

0.310 lb/mmBtu actual heat input of particulate emission

Applicable Compliance Method:

This rule-established particulate emission limit is greater than the emission unit's potential to emit. Compliance with the particulate emission limitation shall be based upon the use of the emission unit's calculated potential to emit:

$(9.50 \text{ E-3 lb/mmBtu particulate emission [AP-42, Table 3.2-3, revision 7/00]}) \times (0.72 \text{ mmBtu/hr heat input [maximum rated heat input of engine]}) = 6.84 \text{ E-3 lb/mmBtu particulate emission}$

If required by Ohio EPA, compliance with the lb/mmBtu of particulate emission limit shall be demonstrated in accordance with the methods and procedures specified in OAC rule 3745-17-03 (B)(10).

Emission Limitation:

1.5 TPY of particulate emission

Applicable Compliance Method:

The TPY particulate emission limitation is greater than the emissions unit's potential to emit. Compliance with the particulate emission limitation shall be based upon the use of the emissions unit's calculated potential to emit:

$(9.5 \text{ E-3 lb/mmBtu particulate emission [AP-42, Table 3.2-3, revision 7/00]}) \times (1.12 \text{ million Btu/hr heat input [maximum rated heat input of engine]}) \times (8760 \text{ hrs/yr}) \times (1 \text{ ton}/2000 \text{ lbs}) = 0.047 \text{ TPY particulate emission}$

Emission Limitation:

Visible particulate emissions shall not exceed 1% opacity from the stack, as a 6-minute average.

Applicable Compliance Method:

If required by Ohio EPA, compliance with the visible emission limit shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. None