

Facility ID: 1677940005 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: 1677940005 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>
B001 (Portable #14) portable, natural gas-fired, small internal combustion engine [CATERPILLAR, Model 63306-TA-LCR 4-stroke/rich-burn, 195 Bhp maximum rated power output @ 1.560 mmBtu/hr maximum rated heat input] driving a natural gas compressor, particulate emissions (PE) uncontrolled, emissions of nitrogen oxides (NOx), carbon monoxide (CO), and total organic compounds (TOCs) controlled by catalytic converter	OAC rule 3745-31-05(A)(3) (PTI 02-17404)	NOx emissions from this emissions unit shall not exceed 0.86 pound per hour and 3.76 tons per year.
		CO emissions from this emissions unit shall not exceed 0.86 pound per hour and 3.76 tons per year.
		TOC emissions from this emissions unit shall not exceed 0.43 pound per hour and 1.88 tons per year.
		The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(a), 3745-18-06(B), 3745-21-08(B), and 3745-21-07(B).
	OAC rule 3745-17-07(A)	Visible PE from the stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(a)	PE from this emissions unit shall not exceed 0.310 pound per million Btu of actual heat input.
	OAC rule 3745-18-06(B)	This rule exempts stationary internal combustion engines, which have rated heat input capacities equal to or less than 10 million Btu per hour, from the sulfur dioxide emissions limit in OAC rule 3745-18-06(G).

**2. Additional Terms and Conditions**

- (a) None

**B. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.
2. A catalytic converter shall be used at all times this emissions unit is in operation. The catalytic converter shall be maintained in accordance with the manufacturer's recommendations.

**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 0.86 pound per hour and 3.76 tons per year.

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

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

$$Y = H(8760 \text{ hrs/yr})(1 \text{ ton}/2000 \text{ lbs});$$

Where,

H = 0.86 pound per hour NO<sub>x</sub> [controlled potential to emit];  
 Y = 3.76 tons per year NO<sub>x</sub> [controlled potential to emit];  
 N = 2.0 grams/Bhp-hour NO<sub>x</sub>[application emissions data]; and  
 P = 195 Bhp [maximum rated power output].  
 Emission Limitations: CO emissions from this emissions unit shall not exceed 0.86 pound per hour and 3.76 tons per year.

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

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

$$Y = H(8760 \text{ hrs/yr})(1 \text{ ton}/2000 \text{ lbs});$$

Where,

H = 0.86 pound per hour CO [controlled potential to emit];  
 Y = 3.76 tons per year CO [controlled potential to emit];  
 C = 2.0 grams/Bhp-hour CO [application emissions data]; and  
 P = 195 Bhp [maximum rated power output].  
 Emission Limitations: TOC emissions from this emissions unit shall not exceed 0.43 pound per hour and 1.88 tons per year.

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

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

$$Y = H(8760 \text{ hrs/yr})(1 \text{ ton}/2000 \text{ lbs});$$

Where,

H = 0.43 pound per hour TOC [controlled potential to emit];  
 Y = 1.88 tons per year TOC [controlled potential to emit];  
 T = 1.0 grams/Bhp-hour TOC [application emissions data]; and  
 P = 195 Bhp [maximum rated power output].  
 Emission Limitation: Visible PE from this emissions unit shall not exceed 20% opacity as a 6-minute average more than once per any 60-minute period.

Applicable Compliance Method: Compliance shall be determined by visible PE evaluations performed using the procedures specified in USEPA Method 9.

Emission Limitation: PE from this emissions unit shall not exceed 0.310 pound per million Btu of actual heat input.

Applicable Compliance Method: The above PE limitation is greater than the emissions unit's potential to emit, as demonstrated below:

Use the AP-42, 7/00, Table 3.2-3 emission factor of 0.0095 pound of particulates (filterable) per million Btu of actual heat input.

#### F. Miscellaneous Requirements

1. At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:
  - a. the portable source is operating pursuant to a currently effective permit to install (PTI) and/or any applicable permit to operate (PTO) and continues to comply with the requirements of this permit and any applicable state and/or federal rules;
  - b. the portable source has been issued a PTI and the permittee continues to comply with the requirements of the permit including any applicable best available technology (BAT) determination;
  - c. the portable source owner has identified the proposed site(s) to the Ohio EPA;
  - d. the Ohio EPA has determined that the portable source will have an acceptable environmental impact at the proposed site(s);
  - e. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;
  - f. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and
  - g. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation\*.  
 The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site. Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. If the relocation of the portable source would result in the installation of a major stationary source or the modification of a major stationary source, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Also, pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

\* The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site.