

Facility ID: 1667000076 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: 1667000076 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>
Portable, natural gas-fired, stationary small internal combustion engine [Caterpillar 3306-TA-NG -- 4-stroke/rich-burn, 190 HP maximum rated power output @ 0.569 mmBtu/hr maximum rated heat input] driving a natural gas compressor. Particulate emissions (PE) and emissions of nitrogen oxides (NOx), and carbon monoxide (CO) uncontrolled.	OAC rule 3745-31-05(A)(3) (PTI 16-02239)	NOx emissions from this emissions unit shall not exceed 1.26 pounds per hour and 5.51 tons per year.
		CO emissions from this emissions unit shall not exceed 2.12 pounds per hour and 9.27 tons per year.
		Visible PE from the stack shall not exceed 1% opacity, as a 6-minute average.
		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).
	OAC rule 3745-17-11(B)(5)(a)	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 CO 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 limit from OAC rule 3745-17-11(B)(5)(a) is 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, CO, and PE emissions limits.

However, if any proposed change(s), such as with equipment design, capacity, and/or configuration, or operational procedures, or anything else that increase(s) the potential to emit any air pollutant, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

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 emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods using applicable emission factors, as noted:
Emission Limitations: NO_x emissions from this emissions unit shall not exceed 1.26 pounds per hour and 5.51 tons per year.

Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

$$H = \text{NGF}(1 \text{ mmBtu}/1,000,000 \text{ Btu});$$

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

Where,

$$H = 1.26 \text{ pounds per hour of NO}_x \text{ [hourly potential to emit];}$$

$$Y = 5.51 \text{ tons per year of NO}_x \text{ [yearly potential to emit];}$$

$$N = 2.21 \text{ lbs/mmBtu [AP-42, 7/00, Table 3.2-3 NO}_x \text{ emission factor];}$$

$$G = 1050 \text{ Btu/cubic foot of natural gas [fuel heat content]; and}$$

$$F = 542 \text{ cubic feet of natural gas/hr [maximum rated fuel input capacity].}$$

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

Emission Limitations: CO emissions from this emissions unit shall not exceed 2.12 pounds per hour and 9.27 tons per year.

Applicable Compliance Method: The above emission limitations were established based upon the potential to emit as demonstrated in the equations below:

$$H = \text{CGF}(1 \text{ mmBtu}/1,000,000 \text{ Btu});$$

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

Where,

$$H = 2.12 \text{ lbs/hr CO [hourly potential to emit];}$$

$$Y = 9.27 \text{ TPY CO [yearly potential to emit];}$$

$$C = 3.72 \text{ lbs/mmBtu [AP-42, 7/00, Table 3.2-3 CO emission factor]; and}$$

$$G = 1050 \text{ Btu/cubic foot of natural gas [fuel heat content]; and}$$

$$F = 542 \text{ cubic feet of natural gas/hr [maximum rated fuel input capacity].}$$

If required, compliance with the hourly CO emissions limit shall be determined in accordance with the requirements in 40 CFR Part 60, Appendix A, Method 10.

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).

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).

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 notification and exemption requirements have been met. The director may issue a "Notice of Site Approval" through either of the following scenarios:
 - a. If future location(s) of the proposed portable source are unknown, the approval to relocate the portable source shall be in accordance with OAC rule 3745-31-03(A)(1)(p)(i) and the following criteria shall be met:
 - i. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination;
 - ii. the portable source is operating pursuant to a currently effective PTI and/or a current permit to operate (PTO) and continues to comply with the requirements of the permit and any applicable state and/or federal rules;
 - iii. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;
 - iii. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07 and that the

relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
 iv. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.

The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site;
 or
 b. 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:

- i. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination;
- ii. the portable source is operating pursuant to a currently effective PTI and/or a current permit to operate (PTO) and continues to comply with the requirements of the permit and any applicable state and/or federal rules;
- iii. the permittee has identified the proposed site(s) to the permitting District Office or local air agency;
- iv. the permitting District Office/local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
- v. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;
- vi. 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
- vii. 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 approval(s) 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. 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.

2. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC rule 3745-77, which may include the requirement to apply for a Title V permit.

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. 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.