Facility ID: 0679000302 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: 0679000302 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

Go to the top of this document

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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Portable 120 hp natural gas fired internal combustion engine	OAC rule 3745-31-05(A)(3) (PTI 06-06912)	Emissions of nitrogen oxides (NOx) shall not exceed 4.0 lbs/hr and 17.7 tpy. Emissions of carbon monoxide (CO) shall not exceed 0.3 lb/hr and 1.5 tpy. Emissions of organic compounds (OC) shall not exceed 0.1 lb/hr and 0.6 tpy. No visible particulate emissions shall be exhausted from the stack. Particulate emissions (PE) shall not exceed 0.35 tpy. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5)(a), 3745-21-08(B) and 3745-23-06(B).
	OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.310 lb/mmBtu actual heat input. See section A.2.a. PE shall not exceed 0.25 lb/mmBtu of actual heat input. See section A.2.b.
	OAC rule 3745-17-07(A)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See section A.2.c.
	OAC rule 3745-23-06(B)	See section A.2.d.
	OAC rule 3745-18-06(B)	Exempt. See section A.2.e.

2. **Additional Terms and Conditions**

   (a) This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
   The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
   The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-06912.

   On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to

the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 06-06912.
OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 0.24 mmBtu/hr.

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:
Emission Limitations:

Emissions of NOx shall not exceed 4.0 lbs/hr and 17.7 tpy.

Applicable Compliance Method:

Compliance with the lb/hr NOx emission limitation may be demonstrated using the following equation. The NOx emission factor was provided by the manufacturer.

(18.0 g/bhp-hr)(0.0022 lb/g)(0.24045 mmBtu/hr)/(0.0024 mmBtu/bhp-hr) = 4.0 lbs/hr

If required, compliance with the lb/hr NOx emission limitation shall be demonstrated by performing an emission test in accordance with the procedures specified in Methods 1 through 4 and Method 7 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

The tpy emission limitation was developed by multiplying the short-term allowable NOx emission limitation (4.0 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitations:

Emissions of CO shall not exceed 0.3 lb/hr and 1.5 tpy.

Applicable Compliance Method:

Compliance with the lb/hr CO emission limitation may be demonstrated using the following equation. The CO emission factor was provided by the manufacturer.

(1.3 g/bhp-hr)(0.0022 lb/g)(0.24045 mmBtu/hr)/(0.0024 mmBtu/bhp-hr) = 0.3 lb/hr

If required, compliance with the lb/hr CO emission limitation shall be demonstrated by performing an emission test in accordance with the procedures specified in Methods 1 through 4 and Method 10 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (0.3 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitations:

Emissions of OC shall not exceed 0.1 lb/hr and 0.6 tpy.

Applicable Compliance Method:

Compliance with the lb/hr OC emission limitation may be demonstrated using the following equation. The OC emission factor was provided by the manufacturer.

(0.3 g/bhp-hr)(0.0022 lb/g)(0.24045 mmBtu/hr)/(0.0024 mmBtu/bhp-hr) = 0.1 lb/hr

If required, compliance with the lb/hr OC emission limitation shall be demonstrated by performing an emission test in accordance with the procedures specified in Methods 1 through 4 and Method 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

The tpy emission limitation was developed by multiplying the short-term allowable OC emission limitation (0.1 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

No visible particulate emissions shall be exhausted from the stack.

Applicable Compliance Method:

If required, compliance with the visible particulate emission limitation shall be determined in accordance with the procedures specified in Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
Emission Limitations:

PE shall not exceed 0.310 lb/mmBtu actual heat input.
PE shall not exceed 0.35 tpy.

Applicable Compliance Method:

Compliance with the short-term PE limitation may be demonstrated by the particulate emission factor of 0.0095 lb/mmBtu obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-3, dated July, 2000.

If required, compliance with the short-term PE limitation shall be demonstrated by performing an emission test in accordance with the procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum hourly gas burning capacity of the emissions unit (0.24 mmBtu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

PE shall not exceed 0.25 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the short-term PE limitation may be demonstrated by the particulate emission factor of 0.0095 lb/mmBtu obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-3, dated July, 2000.

If required, compliance with the short-term PE limitation shall be demonstrated by performing an emission test in accordance with the procedures specified in Methods 1 through 5 of 40 CFR Part 60, Appendix A and the procedures in OAC rule 3745-17-03(B)(10). Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, Southeast District Office.

F. **Miscellaneous Requirements**

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria are met:

   a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

   b. the portable emissions unit is operating pursuant to a currently effective permit to install, permit to operate or registration;

   c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Southeast District Office (SEDO) and the appropriate field office having jurisdiction over the new site within a minimum of thirty (30) days prior to the scheduled relocation; and

   d. in the SEDO's and the appropriate field office's judgement, the proposed site is acceptable under rule 3745-15-07 of the Ohio Administrative Code.

2. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a PTI providing the following criteria of OAC rule 3745-31-05(F) are met:

   a. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

   b. the portable emissions unit is equipped with best available technology;

   c. the portable emission unit owner has identified the proposed site to Ohio EPA;

   d. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

   e. a public notice, consistent with Chapter 3745-47 of the Administrative Code, is published in the county where the proposed site is located;

   f. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to the proposed site; and

   g. the portable emissions unit owner has provided the Ohio EPA with fifteen (15) days written notice of the relocation.

   Any site approvals issued by the Ohio EPA, pursuant to this section, shall be valid for no longer than three (3) years and are subject to renewal.

3. In order for the SEDO and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the owner or operator of the portable or mobile emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the SEDO (2195 Front Street, Logan, Ohio 43138) and the appropriate office having jurisdiction over the new site. Upon receipt of the notice, the SEDO and/or the appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

4. The permittee should be advised that when portable emissions units are located at a stationary source or at a source comprised of portable emissions units, potential emissions from the portable emissions units are included in the facility potential to emit calculations for Title V and PSD applicability.

   The permittee shall include a potential to emit analysis of facility-wide emissions (including the portable sources) for the proposed relocation in the "Notice of Intent to Relocate".