

Facility ID: 0679940015 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: 0679940015 Emissions Unit ID: P001 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 60 HP natural gas-fired Ford compressor engine	OAC rule 3745-31-05(A)(3) (PTI 06-08065)	Nitrogen oxides (NOX) emissions shall not exceed 1.31 lbs/hr and 5.8 tons per year (TPY). Carbon monoxide (CO) emissions shall not exceed 2.15 lbs/hr and 9.5 TPY. Particulate emissions (PE) shall not exceed 0.6 TPY
	OAC rule 3745-17-11(B)(5)(a)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B)(5) (a), 3745-17-07(A), 3745-21-08(B), 3745-23-06(B) and 3745-18-06(B). PE from the engine exhaust shall not exceed 0.25 lb/million Btu actual heat input. See section A.2.a.
	OAC rule 3745-17-07(A)	PE from the engine exhaust shall not exceed 0.310 lb/million Btu actual heat input. See section A.2.b. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-23-06(B)	See section A.2.c.
	OAC rule 3745-21-08(B) OAC rule 3745-18-06(B)	See section A.2.d. Exempt. See section A.2.e.

2. Additional Terms and Conditions

- (a) The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.310 lb/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter. 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 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 this permit to install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; 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 U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio. 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 this Permit to Install.

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.

OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 million Btu/hr from the sulfur dioxide emission limitation in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of 0.375 million Btu/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 Limitation:

NOx emissions shall not exceed 1.31 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by using the emission factor and calculations provided by the Original Equipment Manufacturer (OEM)(Cummins).

Conversion Factor: 454 grams = 1 pound

Emission factor: NOx = 11.41 grams/Bhp-hr

Equation: [Grams/Bhp/hr (Bhp)]/454 grams = lbs/hr

NOx= [9.9 grams/Bhp-hr x 60 Bhp] / 454 grams/lb = 1.31 lbs/hr

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

Emission Limitation:

NOx emissions shall not exceed 5.8 TPY.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (1.31 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 Limitation:

CO emissions shall not exceed 2.15 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by using the emission factor and calculations provided by the OEM (Ford).

Emission factor: CO = 16.2 grams/Bhp-hr

Equation: [Grams/Bhp/hr (Bhp)]/454 grams = lbs/hr

CO = [16.2 grams/Bhp-hr x 60 Bhp] / 454 grams/lb = 2.144 lbs/hr

If required, compliance shall be demonstrated based upon emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

Emission Limitation:

CO emissions shall not exceed 9.5 TPY.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (2.15 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 Limitation:

PE from the engine exhaust shall not exceed 0.25 lb/million Btu actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated using the emission factor of 0.0095 lb/million Btu from AP-42, Table 3.2-3 (Natural Gas-fired Reciprocating Engines, 8/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:

PE from the engine exhaust shall not exceed 0.310 lb/million Btu actual heat input.

Applicable Compliance Method:

Compliance shall be demonstrated using the emission factor of 0.0095 lb/million Btu from AP-42, Table 3.2-3 (Natural Gas-fired Reciprocating Engines, 8/00).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:

PE shall not exceed 0.6 TPY.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the allowable particulate emission limitation (0.310 lb/million Btu) by the maximum heat input (0.375 million Btu/hr), and by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs/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:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

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 permit to install (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 PTI, permit to operate (PTO) or registration status;
 - 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 days prior to the scheduled relocation; and
 - d. in the SEDO's and appropriate field office's judgement, the proposed site is acceptable under the rule 3745-15-07 of the 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 Ohio EPA with fifteen days written notice of the relocation.

Any site approvals issued by Ohio EPA, pursuant to this section, shall be valid for no longer than three 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".