

Facility ID: 0679000278 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: 0679000278 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>
Natural gas fired, small bore, 70 BHP, VGR 310 Waukasha internal combustion engine	OAC rule 3745-31-05(A)(3) (PTI 06-06661)	Nitrogen oxides (NOx) emissions shall not exceed 2.33 lbs/hr and 10.2 tpy. Carbon monoxide (CO) emissions shall not exceed 0.18 lb/hr and 0.8 tpy. Organic compounds (OC) emissions shall not exceed 0.84 lb/hr and 3.67 tpy.
	OAC rule 3745-17-11(B)(5)(a)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(a), 3745-21-08(B) and 3745-23-06(B). Particulate emissions (PE) from the engine's exhaust shall not exceed 0.310 lb/mmBtu of actual heat input. See section A.2.a. PE shall not exceed 0.25 lb/mmBtu of actual heat input.
	OAC rule 3745-17-07(A)	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 3745-18-06(A)	See section A.2.c.
	OAC rule 3745-21-08(B)	See section A.2.d.
	OAC rule 3745-23-06(B)	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/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) because natural gas is the only fuel burned. 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 06-06661.

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 06-06661.

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.1.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitations:

NOx emissions shall not exceed 2.33 lbs/hr and 10.2 tpy.

Applicable Compliance Method:

Compliance with the NOx emission limitations may be demonstrated using the following equations:

$$(4.08 \text{ lbs/mmBtu})(1 \text{ mmBtu}/1000 \text{ cf})(570 \text{ cf/hr}) = 2.33 \text{ lbs/hr}$$

$$(2.33 \text{ lbs/hr})(8760 \text{ hrs/yr})(0.0005 \text{ ton/lb}) = 10.21 \text{ tpy}$$

The NOx emission factor was obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-2, dated July, 2000.

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. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

The tpy emission limitation was developed by multiplying the short-term allowable NOx emission limitation (2.33 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:

CO emissions shall not exceed 0.18 lb/hr and 0.8 tpy.

Applicable Compliance Method:

Compliance with the CO emission limitations may be demonstrated using the following equations:

$$(0.317 \text{ lb/mmBtu})(1 \text{ mmBtu}/1000 \text{ cf})(570 \text{ cf/hr}) = 0.18 \text{ lb/hr}$$

$$(0.18 \text{ lb/hr})(8760 \text{ hrs/yr})(0.0005 \text{ ton/lb}) = 0.79 \text{ tpy}$$

The CO emission factor was obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-2, dated July, 2000.

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. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (0.18 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:

OC emissions shall not exceed 0.84 lb/hr and 3.67 tpy.

Applicable Compliance Method:

Compliance with the OC emission limitations may be demonstrated using the following equations:

$$(1.47 \text{ lbs/mmBtu})(1 \text{ mmBtu}/1000 \text{ cf})(570 \text{ cf/hr}) = 0.84 \text{ lb/hr}$$

$$(0.84 \text{ lb/hr})(8760 \text{ hrs/yr})(0.0005 \text{ ton/lb}) = 3.67 \text{ tpy}$$

The OC emission factor was obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-2, dated July, 2000.

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. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

The tpy emission limitation was developed by multiplying the short-term allowable OC emission limitation (0.84 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:

PE from the engine's exhaust shall not exceed 0.310 lb/mmBtu of actual heat input.

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

Applicable Compliance Method:

Compliance with the short-term PE limitation may be demonstrated by the particulate emission factor of 0.0000771 lb/mmBtu obtained from AP-42, 5th Edition, Chapter 3.2, Table 3.2-2, 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. No emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).

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, compliance with the visible particulate emission limitation shall be determined in accordance with the procedures specified in Test Method 9 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 procedures specified in paragraph (B)(1) of OAC rule 3745-17-03. No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

F. Miscellaneous Requirements

1. None