

Facility ID: 0679000074 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: 0679000074 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>
Engine #4: 633 HP Caterpillar 3508 TALE natural gas compressor engine	OAC rule 3745-31-05(A)(3) (PTI 06-06847)	Emissions of nitrogen oxides (NOx) shall not exceed 3.0 lbs/hour, 13.2 TPY. Emissions of carbon monoxide (CO) shall not exceed 2.4 lbs/hr, 10.6 TPY. Emissions of organic compounds (OC) shall not exceed 3.0 lbs/hour, 13.2 TPY. Particulate emissions (PE) shall not exceed 1.5 TPY. No visible particulate emissions shall be exhausted from the stack. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5) (b). PE shall not exceed 0.35 lb/mmBtu actual heat input. See section A.I.2.a below. PE shall not exceed 0.062 lb/mmBtu actual heat input (0.33 lb/hour at maximum rated capacity). See section A.I.2.b below. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)(5)(b)	
	OAC rule 3745-17-11(B)(5)(b)	
	OAC rule 3745-17-07(A)	

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 0.062 lb/mmBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
This particulate emission limitation (lb/mmBtu) 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.

B. Operational Restrictions

1. The permittee shall burn only methane in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than methane, 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 methane

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 NO_x shall not exceed 3.0 lbs/hour, 13.2 TPY.

Applicable Compliance Method:

Compliance with the lb/hour NO_x emission limitation shall be demonstrated by the use of manufacturer's test data (2.0 g/bhp-hr) as shown in the following equation.

$$[(2.0 \text{ g/bhp-hr})(0.0022 \text{ lb/g})(5.2035 \text{ MMBtu/hr})] / (0.00776 \text{ MMBtu/bhp-hr}) = 2.95 \text{ lbs/hr}$$

The annual emissions (TPY) shall be determined by multiplying the calculated lb/hour emissions by the actual operating hours of the emissions unit during the year, and then dividing by 2000 lbs/ton.

Emission testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 7. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

Emission Limitations:

Emissions of CO shall not exceed 2.4 lbs/hr, 10.6 TPY.

Applicable Compliance Method:

Compliance with the lb/hour CO emission limitation shall be demonstrated by the use of manufacturer's test data (2.0 g/bhp-hr) as shown in the following equation.

$$[(1.6 \text{ g/bhp-hr})(0.0022 \text{ lb/g})(5.2035 \text{ MMBtu/hr})] / (0.00776 \text{ MMBtu/bhp-hr}) = 2.36 \text{ lbs/hr}$$

The annual emissions (TPY) shall be determined by multiplying the calculated lb/hour emissions by the actual operating hours of the emissions unit during the year, and then dividing by 2000 lbs/ton.

Emission testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 10. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

Emission Limitations:

Emissions of OC shall not exceed 3.0 lbs/hour, 13.2 TPY.

Applicable Compliance Method:

Compliance with the lb/hour OC emission limitation shall be demonstrated by the use of manufacturer's test data (2.0 g/bhp-hr) as shown in the following equation.

$$[(2.0 \text{ g/bhp-hr})(0.0022 \text{ lb/g})(5.2035 \text{ MMBtu/hr})] / (0.00776 \text{ MMBtu/bhp-hr}) = 2.95 \text{ lbs/hr}$$

The annual emissions (TPY) shall be determined by multiplying the calculated lb/hour emissions by the actual operating hours of the emissions unit during the year, and then dividing by 2000 lbs/ton.

Emission testing, if required, shall be conducted using the following test method: 40 CFR Part 60, Appendix A, Method 25A. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA Southeast District Office.

Emission Limitation:

No visible 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 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 Limitation:

Particulate emissions shall not exceed 0.35 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0000771 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.2, Table 3.2-2 (07/00).

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 Limitations:

PE shall not exceed 0.062 lb/mmBtu actual heat input (0.33 lb/hour at maximum rated capacity), 1.5 TPY.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.0000771 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section

3.2, Table 3.2-2 (07/00).

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).

The annual emissions (TPY) shall be demonstrated by multiplying the calculated lb/hour emissions by the actual operating hours of the emissions unit during the year, and then dividing by 2000 lbs/ton.

F. **Miscellaneous Requirements**

1. None