

Facility ID: 1576001852 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: 1576001852 Emissions Unit ID: P002 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>
30 hp, 0.25 MMBtu/hr, natural gas fired, small internal combustion, 4-cycle lean burn engine powering a compressor	OAC rule 3745-31-05(A)(3) (PTI 15-01442)	Nitrogen oxide emissions shall not exceed 4.08 lbs/mmBtu of actual heat input, 1.02 lbs/hr and 4.47 tons/yr. Carbon monoxide emissions shall not exceed 0.557 lb/mmBtu of actual heat input, 0.14 lb/hr and 0.61 ton/yr. Volatile organic compound emissions shall not exceed 0.118 lb/mmBtu of actual heat input, 0.03 lb/hr and 0.13 ton/yr. Particulate emissions shall not exceed 0.0000771 lb/mmBtu of actual heat input, 0.00002 lb/hr and 0.00009 ton/yr. PM10 emissions shall not exceed 0.00991 lb/mmBtu of actual heat input, 0.003 lb/hr and 0.013 ton/yr.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). Visible particulate emissions from the stack servicing this emissions unit shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) None

B. Operational Restrictions

1. Only natural gas shall be burned in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. None

D. Reporting Requirements

1. None

E. Testing Requirements

1. Compliance with the emission limitation(s) in section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
Emissions Limitation

Nitrogen oxide emissions shall not exceed 4.08 lbs/mmBtu of actual heat input, 1.02 lbs/hr and 4.47 tons/yr.

Applicable Compliance Method

Emission factors are based on AP42 Table 3.2-2 Uncontrolled Emission Factors For 4-Stroke Lean-burn engines. The engine is rated at 0.25 MMBtu/hr.
 $0.25 \text{ MMBtu/hr} \times 4.08 \text{ lbs/MMBtu} = 1.02 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 4.47 \text{ tons/yr}$
Emissions Limitation

Carbon monoxide emissions shall not exceed 0.557 lb/mmBtu of actual heat input, 0.14 lb/hr and 0.61 ton/yr.

Applicable Compliance Method

Emission factors are based on AP42 Table 3.2-2 Uncontrolled Emission Factors For 4-Stroke Lean-burn engines. The engine is rated at 0.25 MMBtu/hr.
 $0.25 \text{ MMBtu/hr} \times 0.557 \text{ lb/MMBtu} = 0.14 \text{ lb/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 0.61 \text{ ton/yr}$
Emissions Limitation

Volatile organic compound emissions shall not exceed 0.118 lb/mmBtu of actual heat input, 0.03 lb/hr and 0.13 ton/yr.

Applicable Compliance Method

Emission factors are based on AP42 Table 3.2-2 Uncontrolled Emission Factors For 4-Stroke Lean-burn engines. The engine is rated at 0.25 MMBtu/hr.
 $0.25 \text{ MMBtu/hr} \times 0.118 \text{ lb/MMBtu} = 0.03 \text{ lb/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 0.13 \text{ ton/yr}$
Emissions Limitation

Particulate emissions shall not exceed 0.0000771 lb/mmBtu of actual heat input, 0.00002 lb/hr and 0.00009 ton/yr.

Applicable Compliance Method

Emission factors are based on AP42 Table 3.2-2 Uncontrolled Emission Factors For 4-Stroke Lean-burn engines. The engine is rated at 0.25 MMBtu/hr.
 $0.25 \text{ MMBtu/hr} \times 0.0000771 \text{ lb/MMBtu} = 0.00002 \text{ lb/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 0.00009 \text{ ton/yr}$
Emissions Limitation

PM10 emissions shall not exceed 0.00991 lb/mmBtu of actual heat input, 0.003 lb/hr and 0.013 ton/yr.

Applicable Compliance Method

Emission factors are based on AP42 Table 3.2-2 Uncontrolled Emission Factors For 4-Stroke Lean-burn engines. The engine is rated at 0.25 MMBtu/hr.
 $0.25 \text{ MMBtu/hr} \times 0.00991 \text{ lb/MMBtu} = 0.003 \text{ lb/hr} \times 8,760 \text{ hrs/yr} \times 1 \text{ ton}/2,000 \text{ lbs} = 0.013 \text{ ton/yr}$
Emissions Limitation

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

Applicable Compliance Method

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

F. **Miscellaneous Requirements**

1. None