

Facility ID: 0660000246 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: 0660000246 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>
126 horsepower natural gas fired internal combustion engine (P001)	OAC rule 3745-31-05 (PTI 06-5892)	Emissions shall not exceed the following:  nitrogen oxides ("NOx") - 4.17 pounds per hour  carbon monoxide ("CO") - 0.39 pound per hour and 1.7 tons per year  particulate emissions - 0.34 pound per hour and 1.49 tons per year
	OAC rule 3745-17-11(B)	See 2.a below. Particulate emissions shall not exceed 0.310 pound per million British thermal units ("Btu") of actual heat input.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. **Additional Terms and Conditions**
  - (a) The NOx emissions from emission unit P001, and the total NOx from emissions units P001, P002, and P003 combined, shall not exceed 24.9 tons per year.

**B. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.
2. The maximum annual natural gas usage for emission units P001, P002, and P003 combined, shall not exceed 13.08 million cubic feet per year.

**C. Monitoring and/or Record Keeping Requirements**

1. For each day during which this emission unit burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned.
2. The permittee shall maintain records of the total natural gas usage for each calendar year for sources P001, P002, and P003 combined.
3. The permittee shall maintain records of the actual hours of operation for each calendar year for this emission 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 emission unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit an annual report which specifies the total natural gas usage, and the tons per year NOx emissions, for emission units P001, P002, and P003 combined, for the previous calendar year. This report shall also contain the tons per year of CO and particulate emissions for this emission unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Emission Limitation:

particulate emissions - 0.310 pound per million Btu of actual heat input and 0.34 pound per hour

Applicable Compliance Method:

Compliance with the particulate emission limit of 0.34 pound per hour of particulate emissions is demonstrated upon multiplying the maximum hourly gas burning capacity of the emission unit (1.10 mmBtu/hr) by the AP-42 emission factor (Table 3.3-1, 10/96 revision) for diesel fuel (0.310 lb/mmBtu).

Note: Compliance with the particulate emission limit of 0.310 pound per million Btu of actual heat input is based on the emission factor from AP-42, Table 3.3-1(dated October 1996). There is no emission factor for burning natural gas but it is assumed to burn at least as clean as diesel fuel.

If required by Ohio EPA, compliance with these emission limitations shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate, and the procedures specified in OAC rule 3745-17-03(B)(10).
2. Emission Limitation:

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

Applicable Compliance Method:

If required by Ohio EPA, compliance with the visible emission limit shall be demonstrated through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. Emission Limitation:

CO - 0.39 pound per hour

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the maximum horsepower of the emission unit (126 hp) by the manufacturer's emission factor of 0.0031 lb CO/hp-hr.

If required by Ohio EPA, compliance with this emission limit shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.
4. Emission Limitation:

NOx - 4.17 pounds per hour

Applicable Compliance Method:

Compliance shall be based upon multiplying the maximum horsepower of the emission unit (126 hp) by the manufacturer's emission factor of 0.0331 lb NOx/hp-hr.

If required by Ohio EPA, compliance with this emission limit shall be demonstrated in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7.
5. Emission Limitation:

particulate emissions - 1.49 tons per year  
CO - 1.7 tons per year

Applicable Compliance Method:

Compliance shall be determined by multiplying the hourly emission rates as listed in E.1 and E.3 above by the actual hours of operation as recorded in Section C.3., and then dividing by 2,000 pounds per ton.
6. Emission Limitation:

The NOx emissions from emission unit P001, or the total NOx from emission units P001, P002, and P003 combined, shall not exceed 24.9 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by employing the following equation:

$$\left[ \frac{\text{total cubic feet of gas consumed per year by P001, P002, and P003 combined, as recorded in Section C.2}}{1094 \text{ cubic feet per hour}} \right] \times \left[ \frac{4.17 \text{ pounds per hour of NOx emissions}}{2000 \text{ pounds per ton}} \right] = \text{tons of NOx per year.}$$

(1094 cubic feet per hour is calculated by dividing the maximum input of 1,094,000 Btu per hour per emission unit by 1000 Btu/cubic feet.)
7. Operational Restriction:

The maximum annual natural gas usage for emission units P001, P002, and P003, combined, shall not exceed 13.08 million cubic feet per year.

Applicable Compliance Method:

Compliance shall be demonstrated through the monitoring and record keeping in Section C.2.

F. **Miscellaneous Requirements**

1. None