Facility ID: 0250110978 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: 0250110978 Emissions Unit ID: B002 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
HERCULES Model G4800T 108 HP, Nat. Gas Fired, Recip./Internal Combustion, 4cycle/Rich Burn Engine (Eng#2/B002)	OAC rule 3745-31-05	a. NOx emissions from this emissions unit shall not exceed 3.36 lbs/hr and 14.7 TPY; b. CO emissions from this emissions unit shall not exceed 2.05 lbs/hr and 8.97 TPY; and c. TOC emissions from this emissions unit shall not exceed 0.28 lb/hr and 1.25 TPY
	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions from this emissions unit shall not exceed 0.25 lb/mmBtu of heat input.
	OAC rule 3745-17-07	Visible particulate emissions from this emissions unit shall not exceed twenty (20) percent opacity as a six-minute average, except as provided by the rule
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions from this emissions unit shall not exceed 0.50 pound per million Btu actual heat input.

2. **Additional Terms and Conditions**

   (a) None

B. **Operational Restrictions**

1. The permittee shall use only natural gas as a fuel in this emissions unit.

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

1. The permittee shall maintain, on a monthly and annual basis, a record of the hours of operation of the emissions unit covered by this permit.

D. **Reporting Requirements**

1. None

E. **Testing Requirements**

1. Compliance with the emission limitations detailed in the above terms and conditions shall be determined in accordance with the following methods:
   Emissions Limitation: NOx emissions from this emissions unit shall not exceed 3.36 lbs/hr and 14.7 TPY.

   Applicable Compliance Method: Compliance shall be based on calculations using the rated horsepower of each emissions unit, the hours of operation as recorded above, and manufacturer's emissions factors specified below with the following equations:

   ER(HOURLY) = HP x Ef x 1/453.6, and

   ER(ANNUAL) = HP x Ef x 1/453.6 x A x 1/2000

   where;

HP = Rated horsepower of engine,

Ef = Emissions factor for engine in grams per horsepower-hour; 14.1 grams per horsepower-hour, and

A = Annual hours of engine operation.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the NOx emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.
Emissions Limitation: Carbon monoxide emissions from this emissions unit shall not exceed 2.05 lbs/hr and 8.97 TPY.

Applicable Compliance Method: Compliance shall be based on the use of AP-42 emissions factors, Section 3.2, the maximum rated heat rate of each emissions unit, and the hours of operation as recorded above. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the CO emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.
Emissions Limitation: Particulate emissions from this emissions unit shall not exceed 0.25 lbs/mmBtu of heat input.

Applicable Compliance Method: Compliance shall be based upon the use of an emission factor as specified in AP-42, 5th Edition, Compilation of Air Pollution Emission Factors, section 3.2, table 3.2-5 (.007 lb of particulate matter per mmBtu actual heat input), the maximum rated heat rate of this emissions unit, and the hours of operation of this emissions unit as recorded above. If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).
Emissions Limitation: Total organic compound emissions from this emissions unit shall not exceed 0.28 lbs/hr and 1.25 TPY.

Applicable Compliance Method: Compliance shall be based on the use of AP-42 emissions factors, Section 3.2, the maximum rated heat rate of each emissions unit, and the hours of operation as recorded above.
Emissions Limitation: Visible particulate emissions from this emissions unit shall not exceed twenty (20) percent opacity as a six-minute average more than once per any sixty-minute period.

Applicable Compliance Method: Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).
Emission Limitation: 0.50 pound sulfur dioxide per mmBtu of actual heat input.

Applicable Compliance Method: Compliance with the sulfur dioxide emissions limitation in Section A.I. of these terms and conditions shall be assumed due to the negligible percent of sulfur by weight in the fuel.

F. **Miscellaneous Requirements**

1. None