Facility ID: 1409070866 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: 1409070866 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
P001- 8.75 mmBtu/hr diesel fuel-fired engine	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack associated with this emissions unit shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb PE/mmBtu of actual heat input. See term A.2.a.
	OAC rule 3745-18-06(G)	Exempt per OAC rule 3745-18-06(B)
	OAC rule 3745-35-07(B)	Nitrogen Oxides (NOx) emissions shall not exceed 95 tons per year (TPY) based on a rolling, 12-month summation. See term B.1.

2. **Additional Terms and Conditions**

   (a) The particulate emission limitation listed above shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio State Implementation Plan for particulate matter. The present federally enforceable limit is 0.35 lb PE/mmBtu of actual heat input.

B. **Operational Restrictions**

1. The permittee shall only burn diesel fuel, containing no greater than 0.5% sulfur by weight, in this emissions unit.

2. The maximum annual diesel fuel usage for this emissions unit shall not exceed 409,500 gallons per year, based on a rolling, 12-month summation.

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

1. The permittee shall maintain monthly records of the following information:

   a. the total amount of diesel fuel burned, in gallons;

   b. the rolling,12-month summation of the diesel fuel usage, in gallons;

   c. the calculated emission rate of nitrogen oxides, in tons; and

   d. the rolling, 12-month summation of the nitrogen oxides emission rate, in tons.

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

   a. the color of the emissions;

   b. whether the emissions are representative of normal operations;

   c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:

a. the rolling 12-month, diesel fuel usage, in gallons.

b. the rolling 12-month, nitrogen oxides emissions, in tons per year.

c. any exceedance of the sulfur content fuel restriction specified in term B.1.

The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively) . Additionally, this report shall indicate the cause of the excursion and the corrective action taken to prevent further exceedances.

If no exceedances occurred, the permittee shall state so in the report.

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel was burned in this emission unit. Each report shall include the type and quantity burned and shall be submitted within 30 days after the deviation occurs.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

E. **Testing Requirements**

1. Emission Limitation

Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method

Compliance shall be determined 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).

2. Emission Limitation

Nitrogen Oxides (NOx) emissions shall not exceed 95 TPY based on a rolling, 12-month summation.

Applicable Compliance Method

Compliance with the annual emission limitation in Section A.1shall be determined by the following equation;

A x B x C /2000

where,

A = the annual diesel fuel usage, in gallons

B = 0.145 mmBtu/gallon

C = the nitrogen oxide emission factor identified in mmBtu in AP-42 Section 3.4 (Large Stationary Diesel/All Stationary Diesel Fired Engines 10/96), and dividing by 2000.

3. Compliance with the annual diesel fuel usage limitation in term B.2 shall be demonstrated by the record keeping in term C.1.

4. Emission Limitation

PE from the engine's exhaust shall not exceed 0.062 lb/mmBtu actual heat input

Applicable Compliance Method

Compliance shall be determined based on the emission factor of 0.062 lb/mmBtu specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4 - Table 3.4-2 (10/96) for "Large Stationary Diesel and All Stationary Dual-fuel Engines". By use of the above emission factor, the permittee also demonstrates compliance with the 0.35 lb PE/MMBtu of actual heat input limitation.

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).

F. **Miscellaneous Requirements**

1. By request of the applicant and pursuant to OAC rule 3745-35-07, the special terms and conditions of this Permit to Operate are federally enforceable requirements.