Facility ID: 0238000219 Issuance type: Final State Permit To Operate

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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.

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Facility ID: 0238000219 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
270 HP Cummins model LTA10-P stationary diesel engine	OAC rule 3745-31-05(A)(3) (PTI 02-22645 Effective 7/5/2007)	0.59 lb/hr and 1.77 TPY of particulate emissions (PE)/PM less than 10 microns in diameter (PM-10). 0.55 lb/hr and 1.65 TPY of sulfur dioxide (SO2). See A.2.a and B.1 below. 8.37 lbs/hr of nitrogen dioxides (NOx). 0.68 lb/hr and 2.03 TPY of organic compounds (OC). 1.80 lb/hr and 5.38 TPY of carbon monoxide (CO). Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a 6-minute average, except during acceleration. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a).
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb/mmBtu of particulate emissions.
	OAC rule 3745-17-07(A)(1)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	This emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(B).
	OAC rule 3745-31-05(C)	24.98 TPY of nitrogen dioxides (NOx). See B.2 below.

2. **Additional Terms and Conditions**

   (a) In accordance with OAC rule 3745-31-05(A)(3), best available technology for this emissions unit includes the emission limitations and fuel sulfur content restriction.

B. **Operational Restrictions**

1. The permittee shall use only diesel fuel/number 2 fuel oil with a maximum sulfur content of 0.5 percent, by weight, for combustion in this emissions unit.

2. The maximum hour operating hours for this emissions unit shall not exceed 114.8 hours per week and 5970 hours per year.

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

1. For each day during which the permittee burns a fuel other than diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

2. The permittee shall maintain documentation of the sulfur content of all fuels received.

3. The permittee shall maintain weekly records of the operating hours for this emissions unit.

4. The permittee shall perform weekly 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 weekly 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 deviation (excursion) reports that identify each day during which a fuel other than diesel fuel with a maximum sulfur content of 0.5 percent by weight was burned in this emissions unit and any corrective action(s) that were taken. Each report shall be submitted to the Ohio EPA Northeast District Office within 30 days of the deviation.

2. The permittee shall submit annual reports by January 31 of each year that include the total annual operating hours for the previous calendar year, as a summation of the weekly records kept according to C.3 above.

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.

   The reports contained in this permit shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

E. **Testing Requirements**

1. Compliance with the emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
   Emission Limitation:
   0.59 lb/hr of PM/PM-10

   Applicable Compliance Method:
   If required, compliance shall be demonstrated based upon an emission test performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.
   Emission Limitation:
   1.77 TPY of PM/PM-10

   Applicable Compliance Method:
   The annual emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.59 lb/hr) by the maximum allowable hours of operation (5970 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
   Emission Limitation:
   0.55 lb/hr of SO2

   Applicable Compliance Method:
   Compliance with the hourly emission limitation above shall be determined by multiplying 0.00205 lb/hp-hr, emission factor for SOx emission from AP-42, Table 3.3-1 (10/96), by 270 hp, the power output rating of this unit.
   Emission Limitation:
   1.65 TPY of SO2

   Applicable Compliance Method:
   The annual emission limitation was developed by multiplying the short-term allowable SO2 emission limitation (0.55 lb/hr) by the maximum allowable hours of operation (5970 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
   Emission Limitation:
   8.37 lbs/hr of NOx

   Applicable Compliance Method:
   Compliance with the hourly emission limitation above shall be determined by multiplying 0.031 lb/hp-hr, emission factor for NOx emission from AP-42, Table 3.3-1 (10/96), by 270 hp, the power output rating of this unit.
   Emission Limitation:
   24.98 TPY of NOx

   Applicable Compliance Method:
   The annual emission limitation was developed by multiplying the short-term allowable NOx emission limitation

(8.37 lbs/hr) by the maximum allowable hours of operation (5970 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:
0.68 lb/hr of OC

Applicable Compliance Method:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.00251 lb/hp-hr, the emission factor from AP-42, Table 3.3-1 (10/96), by 270 hp, the power output rating of this unit.
Emission Limitation:
2.03 TPY of OC

Applicable Compliance Method:
The annual emission limitation was developed by multiplying the short-term allowable OC emission limitation (0.68 lb/hr) by the maximum allowable hours of operation (5970 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:
1.80 lb/hr of CO

Applicable Compliance Method:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.00668 lb/hp-hr, the emission factor from AP-42, Table 3.3-1 (10/96), by 270 hp, the power output rating of this unit.
Emission Limitation:
5.38 TPY of CO

Applicable Compliance Method:
The tpy emission limitation was developed by multiplying the short-term allowable OC emission limitation (1.80 lb/hr) by the maximum allowable hours of operation (5970 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:
Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a 6-minute average, except during acceleration.

Applicable Compliance Method:
If required, compliance with the visible particulate emission limitation shall be demonstrated based upon the visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.
Emission Limitation:
0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:
Compliance with the short term emission limitation above may be determined by the following equation:

(0.0022 lb/hp-hr) / (hp-hr/7000 Btu) * (106 Btu/mmBtu)

where:
0.0022 lb/hp-hr, the emission factor from AP-42, Table 3.3-1 (10/96).

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

F. **Miscellaneous Requirements**

1. None