Facility ID: 0285000467 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.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

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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
Diesel Engine No. 1, 122 HP Perkins Engines Co., LTD., Model 2326/1800	OAC rule 3745-31-05(A)(3) (PTI 02-22842)	0.3 lb/hr and 1.3 TPY of particulate matter (PM)/PM less than 10 microns in diameter (PM-10) 0.3 lb/hr and 1.3 TPY of sulfur dioxide (SO2) 3.8 lbs/hr and 16.6 TPY of nitrogen dioxides (NOx) 0.3 lb/hr and 1.3 TPY of organic compounds (OC) 0.8 lb/hr and 3.5 TPY of carbon monoxide (CO) Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity, as a six-minute average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(5)(a). See Section B.1. below.
	OAC rule 3745-17-11(B)(5)(a)	0.310 lb/mmBtu of particulate emissions
	OAC rule 3745-17-07(A)(1)	The opacity limitation specified in this rule is less stringent than the limit 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).

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 emissions 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.

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.

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. Each

report shall be submitted within 30 days of the deviation.

2. The reports shall include what corrective action was taken and shall be sent to the Director (Ohio EPA's Northeast District Office) within 30 days following the exceedance.

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 Limitations:
0.3 lb/hr and 1.3 TPY of PM/PM-10

Applicable Compliance Methods:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.0022 lb/hp-hr (the emission factor from AP-42,"Gasoline and Diesel Industrial Engines", Table 3.3-1, 10/96) by 122 horsepower (the power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.3 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitations:
0.3 lb/hr and 1.3 TPY of SO2

Applicable Compliance Methods:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.00205 lb/hp-hr (the emission factor from AP-42,"Gasoline and Diesel Industrial Engines", Table 3.3-1, 10/96) by 122 horsepower (the power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.3 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitations:
3.8 lbs/hr and 16.6 TPY of NOx

Applicable Compliance Methods:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.031 lb/hp-hr (the emission factor from AP-42,"Gasoline and Diesel Industrial Engines", Table 3.3-1, 10/96) by 122 horsepower (the power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (3.8 lbs/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitations:
0.3 lb/hr and 1.3 TPY of OC

Applicable Compliance Methods:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.0025141 lb/hp-hr (the emission factor from AP-42,"Gasoline and Diesel Industrial Engines", Table 3.3-1, 10/96) by 122 horsepower (the power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.3 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:
0.8 lb/hr and 3.5 TPY of CO

Applicable Compliance Method:
Compliance with the hourly emission limitation above shall be determined by multiplying 0.00668 (the emission factor from AP-42,"Gasoline and Diesel Industrial Engines", Table 3.3-1, 10/96) by 122 horsepower (the power output rating of this unit).

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.8 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly 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 six-minute average.

Applicable Compliance Method:
If required, compliance with the opacity limitation shall be determined using Method 9 of 40 CFR, Part 60, Appendix A.
Emission Limitation:
0.310 lb/mmBtu of particulate emissions

Applicable Compliance Method:
If required compliance shall be determined according to OAC rule 3745-17-03(B)(10), (Method 5, 40 CFR, Part 60, Appendix A).

F. **Miscellaneous Requirements**

1. None