

Facility ID: 0448011683 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

Facility ID: 0448011683 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>
2.1 mmBtu/hr internal combustion diesel engine used for transmission life testing, test cell #2	OAC rule 3745-31-05(A)(3) (PTI 04-01222)	Particulate emissions (PE) shall not exceed 5.6 tpy. Total organic compound (TOC) emissions shall not exceed 0.36 lb/mmBtu of actual heat input and 3.3 tpy. Nitrogen oxides (NOx) emissions shall not exceed 2.0 lbs/mmBtu of actual heat input and 18.4 tpy. Carbon monoxide (CO) emissions shall not exceed 0.95 lb/mmBtu of actual heat input and 8.7 tpy.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(5)(a) and 3745-18-06(B). Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	PE from the engine's exhaust shall not exceed 0.310 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(B)	Sulfur Dioxide Exemption See section A.2.a below.

2. Additional Terms and Conditions

- (a) Pursuant to OAC rule 3745-18-06(B), a stationary internal combustion engine which has a rated heat input capacity equal to, or less than, 10 mmBtu/hr total rated capacity is exempt from the applicable requirements of OAC rule 3745-18-06. The rated heat input capacity for this emissions unit is 2.1 mmBtu/hr.

B. Operational Restrictions

1. The permittee shall burn only commercially available diesel fuel in this emissions unit.
2. The permittee shall operate and maintain a diesel fuel meter to measure the quantity of diesel fuel combusted in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the total quantity of diesel fuel burned in this emissions unit.
2. For each day during which the permittee burns a fuel other than commercially available diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. The permittee shall perform monthly 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 eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than commercially available diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. 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 eliminate the visible particulate emissions. These reports shall be submitted to the Toledo Division of Environmental Services (TDOES) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit annual reports that specify the total emissions for the previous calendar year for CO, NOx, PE and VOC, in tons. This report shall be submitted to the TDOES by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

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

Applicable Compliance Method:

Compliance shall be demonstrated by performing visible particulate emission observations in accordance with the method and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B) (1).

Emission Limitation:

PE from the engine's exhaust shall not exceed 0.310 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined based upon the particulate emission factor of 0.310 lb/mmBtu of actual heat input provided in AP-42 "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 3.3, Table 3.3-1, dated 10/96 for diesel fuel.

If required, compliance shall be demonstrated by performing an emissions test in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

Emission Limitation:

PE shall not exceed 5.6 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.310 lb/mmBtu) by the maximum rated capacity of the engine (2.1 mmBtu/hr) and 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

CO emissions shall not exceed 0.95 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined based upon the CO emission factor of 0.95 lb/mmBtu of actual heat input provided in AP-42 "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 3.3, Table 3.3-1, dated 10/96 for diesel fuel.

If required, compliance shall be demonstrated by performing an emissions test in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 10.

Emission Limitation:

CO emissions shall not exceed 8.7 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable CO emission limitation (0.95 lb/mmBtu) by the maximum rated capacity of the engine (2.1 mmBtu/hr) and 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

NOx emissions shall not exceed 2.0 lbs/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined by dividing the NOx emission factor of 0.16 pound of NOx per gallon of fuel by the heating value of 0.137 mmBtu per gallon of fuel. The NOx emission factor is based on emission tests

performed on a similar emissions unit at this facility on July 15, 1997.

If required, compliance shall be demonstrated by performing an emissions test in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 7.

Emission Limitation:

NOx emissions shall not exceed 18.4 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable NOx emission limitation (2.0 lbs/mmBtu) by the maximum rated capacity of the engine (2.1 mmBtu/hr) and 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

TOC emissions shall not exceed 0.36 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined based upon the TOC emission factors of 0.35 lb/mmBtu of actual heat input and 0.01 lb/mmBtu of actual heat input provided in AP-42 "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 3.3, Table 3.3-1, dated 10/96 for diesel fuel.

If required, compliance shall be demonstrated by performing an emissions test in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and Method 25 or 25A, as appropriate.

Emission Limitation:

TOC emissions shall not exceed 3.3 tpy.

Applicable Compliance Method:

The tpy emission limitation was developed by multiplying the short-term allowable TOC emission limitation (0.36 lb/mmBtu) by the maximum rated capacity of the engine (2.1 mmBtu/hr) and 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

F. Miscellaneous Requirements

1. None