

Facility ID: 0448011716 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: 0448011716 Emissions Unit ID: B001 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>
B001 - 150 kW (242 bhp) diesel fueled generator	OAC rule 3745-17-07(A)(1)	Visible emissions from any stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average.
	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 pound per million Btu of heat input.
	OAC rule 3745-18-06(B)	See Section A.2.a.
	OAC rule 3745-21-07(B)	See Section A.2.c.
	OAC rule 3745-21-08(B)	See Section A.2.d.
	OAC rule 3745-31-05(A)(3) (PTI 04-01306 issued 5/30/2002)	Carbon monoxide (CO) emissions shall not exceed 1.6 pounds per hour and 7.1 tons per year.
		Nitrogen oxides (NOx) emissions shall not exceed 7.5 pounds per hour and 24 tons per year.
		PE shall not exceed 2.3 tons per year.
		Sulfur dioxide (SO2) emissions shall not exceed 0.50 pound per hour and 2.2 tons per year.
		Volatile organic compound (VOC) emissions shall not exceed 0.60 pound per hour and 2.6 tons per year.

2. Additional Terms and Conditions

- (a) This emissions unit is exempt from the SO2 requirements under this rule due to being a stationary internal combustion engine with a maximum capacity of less than 10 mmBtu per hour heat input. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1), OAC rule 3745-17-11(B)(5), OAC rule 3745-21-07(B), and OAC rule 3745-21-08(B). The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 04-01306. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On February 18, 2008, OAC rule 3745-21-07 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. The rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); until the U.S. EPA approves the revision to OAC rule 3745-21-07, the requirement to satisfy the "latest available control techniques and operating practices in accordance with best current technology" still exists as part of the federally-approved SIP for Ohio.

The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established in PTI No. 04-01306. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The permittee shall use only diesel fuel with a maximum sulfur content of 0.5% by weight for combustion in this emissions unit.
2. The permittee shall maintain and operate a positive crankcase ventilation system at all times when the emissions unit is in operation.
3. Engine ignition shall be retarded at least 4 degrees from peak power settings at all times when the emissions unit is in operation.
4. The maximum annual operating time for this emissions unit shall not exceed 6,500 hours, based upon a summation of the monthly calendar year operating hours.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than diesel fuel with a maximum sulfur content of 0.5% by weight, the permittee shall maintain a record of the type, sulfur content and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain daily records that document any time periods when the positive crankcase ventilation system was not in service when the emissions unit was in operation.
3. The permittee shall maintain daily records that document any time periods when the engine ignition was not retarded at least 4 degrees from peak power settings when the emissions unit was in operation.
4. The permittee shall maintain monthly records of the following information:
 - a. The operating hours for each month.
 - b. The calendar year summation of the monthly operating hours.

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% by weight is used in this emissions unit.
2. The permittee shall submit deviation (excursion) reports that identify each day during which the positive crankcase ventilation system was not in service when the emissions unit was in operation.
3. The permittee shall submit deviation (excursion) reports that identify each day during which the engine ignition was not retarded at least 4 degrees from peak power settings when the emissions unit was in operation.
4. The permittee shall submit deviation (excursion) reports that identify any monthly record which shows that the annual summation of the operating hours exceeds the applicable limitation.
5. Each report shall be submitted to the Toledo Division of Environmental Services within 30 days of the discovery of the deviation.

E. Testing Requirements

1. Compliance with the emission limitation(s) of these terms and conditions shall be determined in accordance with the following methods(s):
Emission Limitation:
Visible emissions from any stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emission readings performed in accordance with Method 9 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC 3745-17-03(B)(1).

Emission Limitation:

CO emissions shall not exceed 1.6 pounds per hour.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.00668 lb CO per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A.

Emission Limitation:

CO emissions shall not exceed 7.1 tons per year.

Applicable Compliance Method:

This limitation was established by multiplying the 1.6 pounds per hour emission limitation by 8,760 hours of operation per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

NOx emissions shall not exceed 7.5 pounds per hour.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.031 lb NOx per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee

shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A.

Emission Limitation:

NOx emissions shall not exceed 24 tons per year.

Applicable Compliance Method:

This limitation was established by multiplying the 7.5 pounds per hour emission limitation by the maximum allowable operating hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

PE shall not exceed 0.310 pound per mmBtu of heat input.

Applicable Compliance Method:

This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 5 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation:

PE shall not exceed 2.3 tons per year.

Applicable Compliance Method:

This limitation was established by multiplying the 0.0022 pound per horsepower-hour emissions factor (equivalent to the 0.310 pound PE per mmBtu emissions factor above) times the maximum capacity of 242 hp for the engine, then multiplying by 8,760 hours per year and dividing by 2,000 pounds per ton. These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

SO2 emissions shall not exceed 0.50 pound per hour.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.00205 lb SO2 per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 6 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-18-04.

Emission Limitation:

SO2 emissions shall not exceed 2.2 tons per year.

Applicable Compliance Method:

This limitation was established by multiplying the 0.50 pound per hour emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:

VOC emissions shall not exceed 0.60 pound per hour.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.00247 lb VOC per bhp-hr times the maximum capacity of 242 hp for the engine. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, dated 10/96 Section 3.3, Table 3.3-1. If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1 through 4 and 25 of 40 CFR Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-21-10.

Emission Limitation:

VOC emissions shall not exceed 2.6 tons per year.

Applicable Compliance Method:

This limitation was established by multiplying the 0.60 pound per hour emission limitation by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual emission limitation.

2. Alternative U.S. EPA approved test methods may be used to demonstrate compliance with the above emissions limitations with prior approval from the Ohio EPA.

F. Miscellaneous Requirements

1. None