

Facility ID: 1431453455 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: 1431453455 Emissions Unit ID: P010 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>	
P010-750 Kilowatt Diesel Engine Generator	OAC rule 3745-31-05(A)(3) PTI 14-02881	Sulfur dioxide (SO2) emissions shall not exceed 4.67 lbs/hr.	
		Nitrogen oxide (NOx) emissions shall not exceed 28.2 lbs/hr.	
		Carbon monoxide (CO) emissions shall not exceed 7.49 lbs/hr.	
		Organic compound (OC) emissions shall not exceed 0.33 lb/hr.	
		Particulate emissions (PE) and emissions of Particulate Matter less than 10 microns in diameter (PM10) shall not exceed 0.25 lb/MMBtu.	
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B) and OAC rule 3745-31-05(C).	
		OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as specified by rule.
		OAC rule 3745-17-11(B)(5)(b)	The emission limit specified by this rule is less stringent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		OAC rule 3745-18-06(D)	The emission limit specified by this rule is less stringent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		OAC rule 3745-21-08(B)	See term A.2.c.
OAC rule 3745-23-06(B)	See term A.2.d.		
OAC rule 3745-31-05(C)	See term A.2.a and B.1.		

**2. Additional Terms and Conditions**

- (a) The maximum total annual emissions from this emissions unit shall not exceed the following emission limitations based upon a rolling, 365-day summation:
  - 0.234 ton per year SO2;
  - 1.41 tons per year NOx;
  - 0.37 ton per year CO;
  - 0.016 ton per year OC
  - 0.032 ton per year PE/PM10
 Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the emission limitations and rolling 365-day operating hour limitation.

The permittee shall satisfy 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 pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. 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. This rule revision was 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 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

The permittee shall satisfy the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, this rule is no longer part of the State regulations. This rule revision was 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 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

The hourly emission limitations for this emissions unit were established to reflect the potential. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these limits.

**B. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 100 hours based upon a rolling, 365-day summation.
2. The permittee shall only use No.2 diesel fuel in this emissions unit with a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 4.67 pounds per hour.

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

1. The permittee shall maintain daily records of the operating hours for the generator and the rolling, 365-day total hours of operation.
2. For each day during which the permittee burns a fuel other than No. 2 diesel fuel, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

**D. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify each day in which the rolling, 365-day total hours of operation limit was exceeded. The report shall state the reason for the exceedance and what will be done to resolve the violation. These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter. If no exceedance occurred, a report shall be submitted stating so.
2. The permittee shall submit quarterly deviation (excursion) reports which identify each day in which a fuel other than #2 diesel fuel with a sulfur content sufficient to comply with the allowable sulfur dioxide emission limitation is employed in this emission unit. These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter. If no deviations occurred, a report shall be submitted stating so.
3. The permittee shall submit quarterly deviation (excursion) reports which shows a deviation of the #2 diesel fuel sulfur content and/or sulfur dioxide emission limitation. These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous calendar quarter. If no deviations occurred, a report shall be submitted stating so.

**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. Emissions Limitation:
 

0.234 TPY SO<sub>2</sub>

Applicable Compliance Method:

The SO<sub>2</sub> emissions are calculated as follows:

$$\text{Emission factor (lbs/hr)} \times \text{operating hours/yr} \times 1 \text{ Ton}/2000 \text{ lbs} = \text{TPY SO}_2$$

Emission factor = 4.67 lbs SO<sub>2</sub>/hr provided by the facility in PTI 14-02881 issued February 3, 1993.
3. Emissions Limitation:
 

1.41 TPY NO<sub>x</sub>

Applicable Compliance Method:

The NO<sub>x</sub> emissions are calculated as follows:

Emission factor (lbs/hr) X operating hours/yr X 1 Ton/2000 lbs = TPY NOx

Emission factor = 28.2 lbs NOx/hr provided by the facility in PTI 14-02881 issued February 3, 1993.

4. Emissions Limitation:  
0.374 TPY CO

Applicable Compliance Method:  
The CO emissions are calculated as follows:

Emission factor (lbs/hr) X operating hours/yr X 1 Ton/2000 lbs = TPY CO

Emission factor = 7.49 lbs CO/hr provided by the facility in PTI 14-02881 issued February 3, 1993.

5. Emissions Limitation:  
0.0165 TPY OC

Applicable Compliance Method:  
The OC emissions are calculated as follows:

Emission factor (lbs/hr) X operating hours/yr X 1 Ton/2000 lbs = TPY OC

Emission factor = 0.33 lbs OC/hr provided by the facility in PTI 14-02881 issued February 3, 1993.

6. Emissions Limitation:  
0.032 TPY PM

Applicable Compliance Method:  
The PM emissions are calculated as follows:

Emission factor (0.25 lbs PM/MMBtu) X maximum input rating for diesel fired generator (2.56 MMBtu/hr) X operating hours/yr X 1 Ton/2000 lbs = TPY PM

Emission factor based on emission limit taken from the PTI 14-02881 for this emissions unit issued February 3, 1993.

7. Operational Limitation:

The permittee shall not exceed 100 operating hours over a rolling, 365-day summation.

Applicable Compliance Method:

Compliance with the rolling, 365 day operating hours limit shall be demonstrated by the record keeping requirement in section C.1 of this permit.

8. Emission Limitations:

The maximum total annual emissions from this emissions unit shall not exceed the following emission limitations based upon a rolling, 365-day summation:

0.234 ton per rolling 365-day period SO<sub>2</sub>;  
1.41 tons per rolling 365-day period NO<sub>x</sub>;  
0.37 ton per rolling 365-day period CO;  
0.016 ton per rolling 365-day period OC  
0.032 ton per rolling 365-day period PE/PM<sub>10</sub>

Applicable Compliance Method:

The annual rolling 365-day emissions limitations were established by multiplying the emission factor (lbs/hr) by the maximum allowable hours of operation of 100 hours per rolling 365-day period and then dividing by 2000 lbs/ton.

F. **Miscellaneous Requirements**

None