

Facility ID: 1677010265 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 1677010265 Emissions Unit ID: B004 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>
B004 - Caterpillar Model No. 3304B diesel-fired electric generator - CAT Generator 1.	OAC rule 3745-31-05(A)(3) (PTI 16-02470)	Nitrogen oxide (NOx) emissions shall not exceed 3.67 pounds per hour.  Carbon monoxide (CO) emissions shall not exceed 1.05 pounds per hour.  Organic compounds (OC) emissions shall not exceed 0.06 pound per hour.  Sulfur dioxide (SO2) emissions shall not exceed 0.06 pound per hour.  The total combined hazardous air pollutants (HAPs) emissions shall not exceed 0.06 pound per hour.  The particulate emissions (PE) from the engine's exhaust shall not exceed 0.09 pound per million Btu of actual heat input.  PE shall not exceed 0.10 pound per hour.  Visible PE from any stack shall not exceed 10 percent opacity, as a six-minute average.
	OAC rule 3745-35-07(B)(1) (synthetic minor to avoid Title V)	NOx emissions shall not exceed 6.42 tons per year, based upon a rolling, 12-month summation.  CO emissions shall not exceed 1.84 tons per year, based upon a rolling, 12-month summation.  OC emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation.  SO2 emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation.  The total combined HAPs emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation.  PE shall not exceed 0.18 ton per year, based upon a rolling, 12-month summation.
	OAC rule 3745-17-07(A)	See B.1 and B.2 below. The emission limitation based on this applicable rule is

OAC rule 3745-17-11(B)(5)(a)	less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
OAC rule 3745-18-06(B)	The emission limitation based on this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05.
OAC rule 3745-21-08(B)	This emissions unit is exempt from OAC rule 3745-18-06(G) because the stationary internal combustion engine has a rated heat input capacity less than 10 MM Btu per hour total rated capacity. See A.2.b.

**2. Additional Terms and Conditions**

- (a) The hourly NOx, CO, OC, SO2, and total combined HAPs emission limitations are based on the emissions unit's potential to emit. Therefore, no record keeping or reporting is required to demonstrate compliance with these emission limitations.  
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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

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. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions 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. This emissions unit shall be operated with diesel fuel with a sulfur content less than or equal to 0.05% by weight.
- 2. The maximum annual operating hours for this emissions unit shall not exceed 3500, based upon a rolling, 12-month summation of the operating hours.

To ensure enforceability during the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the operating hours levels specified in the following table:

. Maximum Allowable  
Month(s) Cumulative Operating Hours

- 1-350
- 1-2-700
- 1-3-1150
- 1-4-1500
- 1-5-1850
- 1-6-2200
- 1-7-2550
- 1-8-2900
- 1-9-3250
- 1-10-3500
- 1-11-3500
- 1-12-3500

After the first 12 calendar months following the issuance of this permit, compliance with the annual operating hours limitation shall be based upon a rolling, 12-month summation of the operating hours.

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

- 1. The permittee shall maintain a record of the sulfur content of each shipment of diesel fuel received for burning in this emissions unit.
- 2. The permittee shall maintain monthly records of the following information:
  - a. the number of hours of operation for each month; and
  - b. beginning after the first 12 calendar months following the issuance of this permit, the rolling, 12-month number of hours of operation.

Also, during the first 12 calendar months following the issuance of this permit, the permittee shall record the cumulative numbers of hours of operation for each calendar month.

**D. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports which identify each day when a fuel that did not meet the requirements of section B.1 of this permit was burned in this emissions unit.
- 2. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the rolling, 12-month restriction on the number of hours of operation; and for the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative numbers of hours of operation.
- 3. These quarterly deviation reports 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 limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):  
Emission Limitation:

NOx emissions shall not exceed 3.67 pounds per hour.

Applicable Compliance Method:

The hourly allowable emission limitation above was established based on the results (1664 grams/hr) of testing at 100% load.

If required, the permittee shall demonstrate compliance with the hourly allowable NOx emission limitation based on the results of emission testing conducted in accordance with Methods 1-4, and 7, 7A, 7C, or 7E, as appropriate, of 40 CFR Part 60, Appendix A.

Emission Limitation:

CO emissions shall not exceed 1.05 pounds per hour.

Applicable Compliance Method:

The hourly allowable emission limitation above was established based on the results (476 grams/hr) of testing at 100% load.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

Emission Limitation:

OC emissions shall not exceed 0.06 pound per hour.

Applicable Compliance Method:

The hourly allowable emission limitation above was established based on the results (27 grams/hr) of testing at 100% load.

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

Emission Limitation:

SO2 emissions shall not exceed 0.06 pound per hour.

Applicable Compliance Method:

The hourly allowable emission limitation above was established based on multiplying the emission factor\* of 0.007 lb SO2/gallon of oil by the maximum hourly number of gallons of oil used (9 gallons/hr).

If required, the permittee shall demonstrate compliance with the hourly allowable SO2 emission limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 6 or 6C, as appropriate, of 40 CFR Part 60, Appendix A.

\* This emission factor was developed based on multiplying the maximum sulfur content in oil (0.0005) by the density of oil (7 lbs/gallon) and by 1 gallon, and then by 2 (for every pound of sulfur burned, 2 pounds of SO2 are produced).

Emission Limitation:

he total combined HAPs\* emissions shall not exceed 0.06 pound per hour.

Applicable Compliance Method:

The hourly allowable emission limitation above was established based on the results (27 grams/hr) of testing at 100% load.

If required, the permittee shall demonstrate compliance with the hourly allowable total combined HAPs emission limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

\* All OC/VOCs are assumed to be HAPs.

Emission Limitation:

The PE from the engine's exhaust shall not exceed 0.09 pound per million Btu of actual heat input.

Applicable Compliance Method:

The lb PE/mmBtu allowable limitation above was established based on the results [45 grams/hr (0.099 lb/hr)] of testing at 100% load, and the maximum heat input (1.16 mmBtu/hr).\*

If required, the permittee shall demonstrate compliance with the allowable pound of PE per million Btu of actual heat input emission limitation based on the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

\* 0.09 lb/mmBtu = 0.099 lb/hr divided by the maximum heat input (1.16 mmBtu/hr)\*\*

\*\* The maximum heat input was calculated based on multiplying the oil heat content (18,390 Btu/lb) by the hourly maximum number of gallons of oil used (9 gallons/hr) and by the density of oil (7 lbs/gallon), and then dividing by 1,000,000.

Emission Limitation:

PE shall not exceed 0.10 pound per hour.

**Applicable Compliance Method:**

The hourly allowable emission limitation above was established based on the results (45 grams/hr) of testing at 100% load.

If required, the permittee shall demonstrate compliance with the hourly allowable PE limitation based on the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.  
Emission Limitation:

Visible PE from any stack shall not exceed 10% opacity as a six-minute average.

**Applicable Compliance Method:**

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-07(B)(1).  
Emission Limitations:

NOx emissions shall not exceed 6.42 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

CO emissions shall not exceed 1.84 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

OC emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation of the monthly emissions.

SO2 emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation of the monthly emissions.

The total combined HAPs emissions shall not exceed 0.11 ton per year, based upon a rolling, 12-month summation of the monthly emissions.

PE shall not exceed 0.18 ton per year, based upon a rolling, 12-month summation of the monthly emissions.

**Applicable Compliance Method:**

The annual allowable emission limitations above were determined by multiplying the hourly allowable emission limitation by the maximum annual allowable operating hours (3500 hours per year, as a rolling, 12-month summation), and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitations and the annual allowable operating hours are maintained, compliance with the annual allowable emission limitations shall be assumed.

**F. Miscellaneous Requirements**

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic pollutant will be less than 1.0 ton. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that a new permit to install application would be required for an emissions unit if changes in the composition of the materials or use of new materials would cause the emissions of any pollutant that has a listed Threshold Limit Value (TLV), as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices"), to increase to above 1.0 ton per year.