Facility ID: 0448960004 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: 0448960004 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate**

Go to the top of this document

**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 |
|---|---|---|
| P001 - 265 kW Caterpillar Portable Generator Model 3306 | OAC rule 3745-31-05(A)(3) (PTI 04-01419 modified 11/21/2006) | The emissions of carbon monoxide (CO) shall not exceed 2.26 pounds per hour. |
| | | Particulate emissions (PE) shall not exceed 0.75 pound per hour. |
| | | The emissions of nitrogen oxides (NOx) shall not exceed 10.51 pounds per hour. |
| | | The emissions of sulfur dioxide (SO2) shall not exceed 0.69 pound per hour. |
| | | The emissions of volatile organic compounds (VOC) shall not exceed 0.84 pound per hour. |
| | | Visible emissions of particulate shall not exceed 10% opacity as a six-minute average. |
| | | See Sections II.A.2.a. |
| | OAC rule 3745-31-05(C) | Emissions shall not exceed, as a rolling, 12-month summation:<br><br>4.52 tons CO<br>21.02 tons NOx<br>1.50 tons PE<br>1.40 tons SO2<br>1.68 tons VOC |
| | OAC rule 3745-17-07(A)(1) | See Section A.2.b. |
| | OAC rule 3745-17-11(B)(5)(a) | Particulate emissions shall not exceed 0.310 lb PE/mmBtu of actual heat input |
| | | See Section A.2.e. |
| | OAC rule 3745-18-06(G) | Emissions shall not exceed 0.5 pound SO2 per mmBtu actual heat input. |
| | OAC rule 3745-21-07(B) | See section II.A.2.c. |
| | OAC rule 3745-21-08(B) | See section II.A.2.d. |

2. **Additional Terms and Conditions**

   (a) 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)(a), OAC rule 3745-18-06(G), OAC rule 3745-21-07(B), and OAC rule 3745-21-08(B).
   The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
   The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).
   The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by complying with all applicable rules.

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.
This particulate emission shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

B. **Operational Restrictions**

1. The permittee shall only combust diesel fuel, containing equal to or less than 0.5% sulfur, by weight, in the emissions unit.

2. The maximum number of operating hours for emissions unit P001 shall not exceed 4,000 hours as a rolling, 12-month summation.

3. The permittee shall utilize injection timing retard as a NOx control method.

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

1. The permittee shall maintain monthly records of the following information:

   a. The hours of operation for P001 for each month;

   b. The rolling, 12-month summation of the hours of operation, calculated by adding the current month's operating hours to the operating hours for the preceding eleven calendar months.

2. The permittee shall maintain documentation on the sulfur content of all fuels received.

3. 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.

4. The permittee shall perform weekly 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 diesel fuel, containing equal to or less than 0.5% sulfur, by weight, was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

2. The permittee shall submit semi-annual deviation (excursion) reports which identify the following:

   a. Any exceedances of the rolling, 12-month hours of operation limitation; and,

   b. 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 deviation (excursion) reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

3. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
   The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

   i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;

   ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;

   iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and

   iv. in the City of Toledo, Division of Environmental Services and the appropriate field office's (having jurisdiction over the new site) judgment, the proposed site is acceptable under OAC rule 3745-15-07.
   In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(A)(3) are met:

   i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;

   ii. the portable emissions unit is equipped with best available technology;

   iii. the portable emissions unit owner has identified the proposed site to the Ohio EPA;

iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;

v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and

vii. the portable emissions unit owner has provided the Ohio EPA with 15 days written notice of the relocation.
Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and subject to renewal.

In order for the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable emissions unit must file a "Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the City of Toledo, Division of Environmental Services and the appropriate field office having jurisdiction over the new site. Upon receipt of this notice, the City of Toledo, Division of Environmental Services, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

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 emissions of particulate from the stack shall not exceed 10% opacity as a six-minute average.

Applicable Compliance Method:

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

The emissions of CO shall not exceed 2.26 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the emission factor listed in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3.1. Gasoline and Diesel Industrial Engines, dated 10/96, (0.00668 lb CO/hp-hr) by the maximum rated capacity of P001 (339 hp) as follows:

(339 hp)(0.00668 lb CO/hp-hr) = 2.26 lbs CO/hr

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 10 of 40 CFR, Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.
Emission Limitation:

The emissions of CO shall not exceed 4.52 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly CO emission rate by the total number of hours operating per rolling, 12-month period, and dividing by 2,000 lbs/ton.
Emission Limitation:

The emissions of NOx shall not exceed 10.51 pounds per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the emission factor listed in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3.1. Gasoline and Diesel Industrial Engines, dated 10/96, (0.031 lb NOx/hp-hr) by the maximum rated capacity of P001 (339 hp) as follows:

(339 hp)(0.031 lb NOx/hp-hr) = 10.51 lbs NOx/hr

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 7 of 40 CFR, Part 60, Appendix A. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.
Emission Limitation:

The emissions of NOx shall not exceed 21.02 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the hourly NOx emission

rate by the total number of hours operated per rolling, 12-month period, and dividing by 2,000 lbs/ton.

Emission Limitation:

Particulate emissions shall not exceed 0.310 pound per mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be determined by a one-time emissions calculation based on the emission factor of 0.310 lb/mmBtu specified in AP-42, Table 3.3.1, Gasoline and Diesel Industrial Engines, dated 10/96.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR, Part 60 Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

Emission Limitation:

The emissions of PE shall not exceed 0.75 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the emission factor listed in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3.1. Gasoline and Diesel Industrial Engines, dated 10/96, (0.00220 lb PE/hp-hr) by the maximum rated capacity of P001 (339 hp) as follows:

(339 hp)(0.00220 lb PE/hp-hr) = 0.75 lb/hr

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-5 of 40 CFR, Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-17-03(B)(9). Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

Emission Limitation:

The emissions of PE shall not exceed 1.50 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly PE emission rate by the total number of hours operated per rolling, 12-month period, and dividing by 2,000 lbs/ton.

Emission Limitation:

Emissions shall not exceed 0.5 pound of SO2 per mmBtu of actual heat input.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through fuel sampling and analysis performed in accordance with Methods 1-4 and Method 19 of 40 CFR Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-18-04(E)(3).

Emission Limitation:

The emissions of SO2 shall not exceed 0.69 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the emission factor listed in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3.1. Gasoline and Diesel Industrial Engines, dated 10/96, (0.00205 lb SO2/hp-hr) by the maximum rated capacity of P001 (339 hp) as follows:

(339 hp)(0.00205 lb SO2/hp-hr) = 0.69 lb SO2/hr

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 6 of 40 CFR, Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-18-04. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.

Emission Limitation:

The emissions of SO2 shall not exceed 1.40 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly SO2 emission rate by the total number of hours operated per rolling, 12-month period, and dividing by 2,000 lbs/ton.

Emission Limitation:

The emissions of VOC shall not exceed 0.84 pound per hour.

Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the emission factor listed in AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3.1. Gasoline and Diesel Industrial Engines, dated 10/96, (0.00247 lb VOC/hp-hr) by the maximum rated capacity of P001 (339 hp) as follows:

(339 hp-hr)(0.00247 lb VOC/hp-hr) = 0.84 lb VOC/hr

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with Methods 1-4 and Method 25 of 40 CFR, Part 60, Appendix A using the methods and procedures specified in OAC rule 3745-21-10. Alternate, equivalent methods may be used upon approval by the Toledo Division of Environmental Services.
Emission Limitation:

The emissions of VOC shall not exceed 1.68 tons as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly VOC emission rate by the total number of hours operated per rolling, 12-month period, and dividing by 2,000 lbs/ton.

F. **Miscellaneous Requirements**

1. None