

Facility ID: 0448011736 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: 0448011736 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P001 - 90 hp (60 kW) diesel generator	OAC rule 3745-31-05(A)(3)	The emissions of carbon monoxide (CO) shall not exceed 0.601 pound per hour or 2.63 tons per year.
		Particulate emissions (PE) shall not exceed 0.198 pound per hour or 0.867 ton per year.
		The emissions of nitrogen oxides (NOx) shall not exceed 2.79 pounds per hour or 12.22 tons per year.
		The emissions of sulfur dioxide (SO2) shall not exceed 0.185 pound per hour or 0.810 ton per year.
		The emissions of volatile organic compounds (VOC) shall not exceed 0.226 pound per hour or 0.991 ton per year.
		See Section A.2.a.
	OAC rule 3745-17-07(A)(1)	Visible emissions of particulate shall not exceed 20% opacity as a six-minute average.
	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions from the exhaust engine shall not exceed 0.25 lb PE/mmBtu of actual heat input. See Section A.2.e.
		Particulate emissions from the exhaust engine shall not exceed 0.310 lb PE/mmBtu of actual heat input. See Section A.2.f.
	OAC rule 3745-18-06(B)	Exempt. See Section A.2.g.
OAC rule 3745-21-07(B)	See Section A.2.b.	
OAC rule 3745-21-08(B)	See Section A.2.c.	
OAC rule 3745-23-06(B)	See Section 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). 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 the 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.

The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(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 February 14, 2005, OAC rule 3745-23-06 was rescinded; 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 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 requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

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.

OAC rule 3745-18-06(B) exempts stationary internal combustion engines which have rated heat input capacities equal to, or less than, 10 mmBtu/hr from the sulfur dioxide emission limit in OAC rule 3745-18-06(G). This emissions unit has a rated heat input of less than 10 mmBtu/hr.

**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.

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

1. The permittee shall maintain documentation on the sulfur content of all fuels received.
2. 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.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible 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 conditions;
  - 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 (a) 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.

**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 20% 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 0.601 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, (0.00668 lb CO/hp-hr) by the maximum rated capacity of P001 (90 hp) as follows:

$$(90 \text{ hp})(0.00668 \text{ lb CO/hp-hr}) = 0.601 \text{ lb CO/hr}$$

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. Alternative, equivalent methods may be used based upon approval by the Toledo Division of Environmental Services.

Emission Limitation:

The emissions of CO shall not exceed 2.63 tons per year.

## Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly CO emission rate by 8,760 hours per year, and dividing by 2,000 lbs/ton.

Emission Limitation:

The emissions of NOx shall not exceed 2.79 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 (90 hp) as follows:

$$(90 \text{ hp})(0.031 \text{ lb NOx/hp-hr}) = 2.79 \text{ lbs NOx/hr}$$

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 based upon approval by the Toledo Division of Environmental Services.

Emission Limitation:

The emissions of NOx shall not exceed 12.22 tons per year.

## Applicable Compliance Method:

Compliance shall be demonstrated by a one-time emissions calculation multiplying the hourly NOx emission rate by 8,760 hours per year, 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 emission of PE shall not exceed 0.198 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, (0.0022 lb PE/hp-hr) by the maximum rated capacity of P001 (90 hp) as follows:

$$(90 \text{ hp})(0.0022 \text{ lb PE/hp-hr}) = 0.198 \text{ lb PE/hr}$$

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 0.867 ton per year.

## Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly PE emission rate by 8,760 hours per year, and dividing by 2,000 lbs/ton.

Emission Limitation:

The emissions of SO2 shall not exceed 0.185 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 (90 hp) as follows:

$$(90 \text{ hp})(0.00205 \text{ lb SO2/hp-hr}) = 0.185 \text{ lb SO2/hr}$$

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 0.810 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly SO<sub>2</sub> emission rate by 8,760 hours per year, and dividing by 2,000 lbs/ton.  
Emission Limitation:

The emissions of VOC shall not exceed 0.226 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 (90 hp) as follows:

$$(90 \text{ hp})(0.00247 \text{ lb VOC/hp-hr}) = 0.226 \text{ lb VOC/hr}$$

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 0.991 ton per year.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the hourly VOC emission rate by 8,760 hours per year, and dividing by 2,000 lbs/ton.

**F. Miscellaneous Requirements**

1. None