

Facility ID: 1431234061 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: 1431234061 Emissions Unit ID: P002 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>
P002-6.65 MMBtu/hr portable diesel generator	OAC rule 3745-31-05(A)(3) PTI 14-05679	Particulate Emissions (PE) shall not exceed 0.41 lb/hr.
		Particulate Matter 10 microns and less (PM10) emissions shall not exceed 0.38 lb/hr.
		Sulfur Dioxide (SO2) emissions shall not exceed 3.36 lb/hr.
		Nitrogen Oxides (NOx) emissions shall not exceed 21.28 lbs/hr.
		Carbon Monoxide (CO) emissions shall not exceed 5.65 lb/hr.
		Volatile Organic Compound (VOC) emissions shall not exceed 0.60 lb/hr.
		The hourly emission limitations specified above represent the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping or reporting is required to demonstrate compliance with these emission limitations.
		Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average.
		See term and condition B.1.
		The requirements of this rule also include compliance with OAC rules 3745-17-11(B)(5)(a), 3734-21-08(B) and 3745-31-05(C).
OAC rule 3745-17-07(A)(1)	The visible PE limitations specified by this rule are less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).	
OAC rule 3745-17-11(B)(5)(a)	PE shall not exceed 0.35 lb/MMBtu actual heat input.	
	See term and condition A.2.b below.	
	PE shall not exceed 0.062 lb/MMBtu actual heat input.	
	See term and condition A.2.c below.	
OAC rule 3745-18-06(G)	Exempt, pursuant to OAC rule 3745-18-06(B).	
OAC rule 3745-21-08(B)	See term and condition A.2.d.	

OAC rule 3745-31-05(C)

Particulate Emissions (PE) shall not exceed 0.62 ton/year, based on a rolling 12-month summation.

Particulate Matter 10 microns or less (PM10) emissions shall not exceed 0.57 ton/year, based on a rolling 12-month summation.

Sulfur Dioxide (SO<sub>2</sub>) emissions shall not exceed 5.04 ton/year, based on a rolling 12-month summation.

Nitrogen Oxides (NO<sub>x</sub>) emissions shall not exceed 31.92 tons/year, based on a rolling 12-month summation.

Carbon Monoxide (CO) emissions shall not exceed 8.48 tons/year, based on a rolling 12-month summation.

Organic Compound (OC) emissions shall not exceed 0.90 ton/year, based on a rolling 12-month summation.

See term and condition B.2.

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of No. 2 fuel oil, fuel oil usage limitation, fuel oil sulfur content limitation and compliance with specified emission limits. The requirement to comply with this PE limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/MMBtu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter. This PE limitation shall be effective and federally enforceable on the date the U.S. EPA approves this PE limitation as a revision to the Ohio SIP for particulate matter. 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 Permit to Install 14-05697.

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. The permittee shall only burn No. 2 fuel oil with a sulfur content of 0.5%, by weight, or less in this emissions unit.
2. The maximum No. 2 fuel oil usage for this emissions unit shall not exceed 145,500 gallons/year, based on a rolling, 12-month summation of the No. 2 fuel oil usage.

Compliance with the annual No. 2 fuel oil usage limitation shall be based upon a rolling, 12-month summation of the No. 2 fuel oil usage.

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

1. For each day during which the permittee burns a fuel other than No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. The No. 2 fuel oil usage for each month, in gallons.
  - b. The rolling, 12-month summation of the fuel oil usage, in gallons.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

**D. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record that shows this emissions unit employed a fuel other than No. 2 fuel oil. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the occurrence.
2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

- a. all exceedances of the rolling, 12-month fuel oil usage limitation; and
  - b. all exceedances of the No. 2 fuel oil sulfur content restriction.
3. The quarterly deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

**E. Testing Requirements**

1. Compliance with the emission limitations and operational restriction specified in Sections A.1 and A.2 shall be determined in accordance with the following methods:

Emissions Limitation:

Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average

Applicable Compliance Method:

If required compliance with this emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

Emissions Limitation:

3.36 lb of SO<sub>2</sub> emissions/hr; 5.04 ton/year of SO<sub>2</sub> emissions

Applicable Compliance Method:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 6.65 MMBtu/hr by the emission factor of 0.505 lb of SO<sub>2</sub> emissions/MMBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual SO<sub>2</sub> emission limitation was established by the following methodology:

P002 has a limit of 145,500 gallons of oil used per year. 145,500 gallons/yr and 48.5 maximum gallons used per hour = 3000 hours/yr

SO<sub>2</sub>: 3000 hrs/yr x 3.36 lb/hr x 1 ton/2000 lbs = 5.04 tons/yr

Therefore, compliance with the annual emission limitation is ensured if compliance is maintained with the annual fuel usage restriction.

If required, the permittee shall demonstrate compliance with the hourly SO<sub>2</sub> emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 6.

Emissions Limitation:

21.28 lbs of NO<sub>x</sub> emissions/hr; 31.92 tons/year of NO<sub>x</sub> emissions

Applicable Compliance Method:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 6.65 MMBtu/hr by the emission factor of 3.2 lbs of NO<sub>x</sub> emissions/MMBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual NO<sub>x</sub> emission limitation was established by the following methodology:

P002 has a limit of 145,500 gallons of oil used per year. 145,500 gallons/yr and 48.5 maximum gallons used per hour = 3000 hours/yr

NO<sub>x</sub>: 3000 hrs/yr x 21.28 lb/hr x 1 ton/2000 lbs = 31.92 tons/yr

Therefore, compliance with the annual emission limitation is ensured if compliance is maintained with the annual fuel usage restriction, as a rolling 12 month summation.

If required, the permittee shall demonstrate compliance with the hourly NO<sub>x</sub> emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7.

Emissions Limitation:

5.65 lb of CO emissions/hr; 8.48 tons/year of CO emissions

Applicable Compliance Method:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 6.65 MMBtu/hr by the emission factor of 0.85 lb of CO emissions/MMBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual CO emission limitation was established by the following methodology:

P002 has a limit of 145,500 gallons of oil used per year. 145,500 gallons/yr and 48.5 maximum gallons used per hour = 3000 hours/yr

CO: 3000 hrs/yr x 5.65 lb/hr x 1 ton/2000 lbs = 8.48 tons/yr

Therefore, compliance with the annual emission limitation is ensured if compliance is maintained with the annual fuel usage restriction.

If required, the permittee shall demonstrate compliance with the hourly CO emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

Emissions Limitation:

0.60 lb of OC emissions/hr; 0.90 ton/year of OC emissions

Applicable Compliance Methods:

The hourly emission limitation is based upon the emissions unit's potential to emit and was established by multiplying the emissions unit's total heat input of 6.65 MMBtu/hr by the emission factor of 0.09 lb of VOC emissions/MMBtu. This emission factor is from AP-42, Fifth Edition, Section 3.4, Table 3.4-1 (10/96).

The annual VOC emission limitation was established by the following methodology:

P002 has a limit of 145,000 gallons of oil used per year. 145,500 gallons/yr and 48.5 maximum gallons used per hour = 3000 hours/yr

OC: 3000 hrs/yr x 0.60 lb/hr x 1 ton/2000 lbs = 0.90 ton/yr

Therefore, compliance with the annual emission limitation is ensured if compliance is maintained with the annual fuel usage restriction.

If required, the permittee shall demonstrate compliance with the hourly VOC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 25 or 25A, as appropriate.

Emissions Limitation:

0.41 lb of PE/hr and 0.38 lb of PM10 emissions/hr; 0.62 TPY of PE and 0.57 TPY of PM10 emissions

Applicable Compliance Method:

The hourly emission limitations are based upon the emissions unit's potentials to emit and were established by multiplying the emissions unit's total heat input of 6.65 MMBtu/hr by the emission factors of 0.062 lb of filterable PE/MMBtu and 0.0573 lb of PM10/MMBtu. These emission factors are from AP-42, Fifth Edition, Section 3.4, Table 3.4-2 (10/96).

The annual PM and PM10 emissions limitations were established by the following methodology:

P002 has a limit of 145,500 gallons of oil used per year. 145,500 gallons/yr and 48.5 maximum gallons used per hour = 3000 hours/yr

PM: 3000 hrs/yr x 0.41 lb/hr x 1 ton/2000 lbs = 0.62 ton/yr

PM10: 3000 hrs/yr x 0.38 lb/hr x 1 ton/2000 lbs = 0.57 ton/yr

Therefore, compliance with the annual emission limitations is ensured if compliance is maintained with the annual fuel usage restriction.

If required, the permittee shall demonstrate compliance with the hourly PM limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

If required, the permittee shall demonstrate compliance with the hourly PM10 emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 40 CFR Part 51, Appendix M, Method 201.

Emissions Limitation:

PE shall not exceed 0.35 lb/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation may be based upon an emission factor of 0.062 lb of filterable PE/MMBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

Emissions Limitation:

PE shall not exceed 0.062 lb/MMBtu actual heat input.

Applicable Compliance Method:

Compliance with this emission limitation may be based upon an emission factor of 0.062 lb of filterable PE/MMBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).

Fuel Usage Limitation:

The maximum No. 2 fuel oil usage for this emissions unit shall not exceed 145,500 gallons/year, based on a rolling, 12-month summation of the No. 2 fuel oil usage.

Applicable Compliance Method:

Compliance with the fuel usage limitation shall be demonstrated by the record keeping requirements specified in term and condition C.2.

Fuel Usage Limitation:

The permittee shall only burn No. 2 fuel oil with a sulfur content of 0.5%, by weight, or less in this emissions unit.

Applicable Compliance Method:

Compliance with the fuel usage limitation in term and condition B.1 shall be demonstrated by the record keeping requirements specified in terms and conditions C.1. and C.3.

**F. Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source
  - a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
    - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
    - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), PTI or registration status;
    - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
    - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
  - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
    - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
    - ii. the portable emissions unit is equipped with best available technology;
    - iii. the permittee has identified the proposed site to 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 permittee 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 permittee has provided Ohio EPA with fifteen days written notice of the relocation.
2. Any site approval issued by Ohio EPA, pursuant to F.1. above, shall be valid for no longer than three years and is subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate Ohio EPA field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee shall 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 Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate Ohio EPA field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate Ohio EPA 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 civil penalties.
3. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.