

Facility ID: 1667080039 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: 1667080039 Emissions Unit ID: N001 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>
N001 - PRC-392 pyrolytic multi chambered burn-off oven - natural gas-fired, with 400,000 BTU/hour primary burner size, 520,000 BTU/hour secondary ( afterburner) burner size, 20 pounds per hour rated batch capacity, 20 pounds per hour maximum charging rate, to incinerate paint/varnish build-up.	OAC rule 3745-31-05(A)(3) PTI 16-2426 Issued 11/18/2005	5% opacity from any stack, as a 6-minute average (except during startup)
		0.06 lb/hr & 0.26 tpy nitrogen oxides
		0.03 lb/hr & 0.13 tpy sulfur dioxide
		0.04 lbs/hr & 0.18 tpy organic compounds
		0.04 lbs/hr & 0.18 tpy particulate emissions
		0.10 lbs/hr & 0.44 tpy Carbon Monoxide
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-17-09(B).
	OAC rule 3745-17-07(A)	The visible particulate emissions limit under OAC rule 3745-17-07 is less stringent than the visible particulate emissions limit established pursuant to OAC rule 3745-31-05 (A)(3).
	OAC rule 3745-17-09(B)	0.20 pound of particulate emissions per one hundred pounds of liquid, semi-solid or solid refuse and salvageable material charged
	OAC rule 3745-17-09(C)	The incinerator, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

**2. Additional Terms and Conditions**

- (a) The above hourly mass emission limitations (regulated under OAC rule 3745-31-05) for particulate matter, nitrogen oxides, sulfur oxides, carbon monoxide, and hydrocarbons are based upon the potential to emit of this emissions unit. Therefore, no recordkeeping, reporting, nor emissions calculations are required with these limitations.  
The permittee shall properly adjust, operate, and maintain the emissions unit covered under this permit in accordance with the manufacturer's recommendations, instructions, and operating manual(s).  
Based upon application data, and Incinerator Emissions factors from Table 2.1-12 of AP-42(5th Edition) the above nitrogen oxide, sulfur dioxide, organic compound and particulates emissions limits are equal to the potential to emit for this emissions unit. Therefore, no emissions record keeping or reporting are required to demonstrate compliance with these emissions limits.

However, if any proposed change(s), such as with equipment design, capacity, and/or configuration, or operational procedures, or anything else that increase(s) the potential to emit any air pollutant, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to the change(s).

**B. Operational Restrictions**

1. This emissions unit shall only be fired with natural gas.
  2. The permittee shall not process parts which may emit vapors of toxic metals such as lead or mercury.
  3. The permittee shall not process parts or materials containing coatings or plastics which contain halogens such as chlorine, fluorine, or bromine.
  4. This emissions unit shall be used to process organic compounds containing only carbon, hydrogen, and oxygen.
  5. Batch incinerators (fully loaded while cold and never opened until the burn cycle is complete) shall incorporate a lockout system, which will prevent the ignition of waste until the exhaust gas temperature of the secondary combustion chamber reaches 1400 degrees Fahrenheit.
  6. The secondary combustion chamber shall be maintained at a minimum exhaust gas temperature of 1400 degrees Fahrenheit until the wastes are completely combusted and the burn-down cycle is complete.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain following information for this emissions unit:
    - a. documentation as to whether or not the material being removed contains any toxic metals; and
    - b. documentation as to whether or not the material being removed contains any halogens.
  2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature within the secondary chamber of the incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.
  3. The permittee shall collect and record the following information for each day:
    - a. all 3-hour blocks of time during which the average combustion temperature within the secondary chamber of the incinerator, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit; and
    - b. a log of the downtime for the control device and monitoring equipment, when the associated emissions unit was in operation.
- D. Reporting Requirements**
1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record showing the processing of material in the incinerator that is prohibited in sections B2, through B.4 of these terms and conditions. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after such an occurrence.
  2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average temperature within the secondary chamber of the incinerator does not comply with the temperature limitation specified above.
  3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition A.2.b.
- 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

0.04 pound of PE per hour

Applicable Compliance Method

Stack testing may be required in the future in accordance with the test methods and procedures specified in OAC rule 3745-17-03(B)(8), and USEPA Method 1-4, & 5, 40 CFR Part 60, Appendix A.

Emission Limitation

0.18 ton of PE per year

Applicable Compliance Method

Multiply the allowable hourly particulate emission limitation by 8760 hours per year, and then divide by 2000.

Emission Limitation

0.20 pound of particulate emissions per one hundred pounds of liquid, semi-solid or solid refuse and salvageable material charged

Applicable Compliance Method

Stack testing may be required in the future in accordance with the test methods and procedures specified in OAC rule 3745-17-03(B)(8), and USEPA Method 1-4, & 5, 40 CFR Part 60, Appendix A.

Emission Limitation

5% opacity as a six-minute average

Applicable Compliance Method

Applicable Compliance Method: USEPA Method 9, 40 CFR Part 60, Appendix A.

Emission Limitation

0.100 pound of CO per hour

Applicable Compliance Method

Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Applicable Compliance Method: The above emissions limit is equal to the potential to emit, as determined by Incinerator Emissions factors from Table 2.1-12 of AP-42(5th Edition dated 10/96).  
Emission Limitation

0.44 ton of CO per year

Applicable Compliance Method

Multiply the allowable hourly emission rate for carbon monoxide by 8760 hours per year, and then divide by 2000.  
Emission Limitation

0.06 pound of NOx per hour

Applicable Compliance Method

Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.0652 pound of NOx per million Btu of heat input [application data] by 0.92 million Btu of heat input per hour [maximum rated heat input].  
Emission Limitation

0.26 ton of NOx per year

Applicable Compliance Method

Multiply the allowable hourly emission rate for nitrogen oxides by 8760 hours per year, and then divide by 2000.  
Emission Limitation

0.04 pound of VOC per hour

Applicable Compliance Method

Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Applicable Compliance Method: The above emissions limit is equal to the potential to emit, as determined by Incinerator Emissions factors from Table 2.1-12 of AP-42(5th Edition dated 10/96).  
Emission Limitation

0.18 ton of VOC per year

Applicable Compliance Method

Multiply the allowable hourly emission rate for volatile organic compounds by 8760 hours per year, and then divide by 2000. Stack testing may be required in the future in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C).

**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 compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees 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 changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.