

Facility ID: 1677050171 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: 1677050171 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>
Pyrolysis incinerator (burn-off oven) cleans metal parts coated with thermoplastic or other organic material. Natural gas-fired, multiple chambered (primary chamber and secondary chamber each rated at 0.25 million Btu per hour of heat input), intermittent charging (20 pounds per hour rated charging capacity) burning Type 6 materials, particulate emissions (PE) uncontrolled.	OAC rule 3745-31-05(A)(3) (PTI 16-01769)	Visible PE from the stack shall not exceed 1% opacity, as a 6-minute average (except during startup). The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rules 3745-17-09(B) and 3745-17-09(C).
	OAC rule 3745-17-09(B)	PE shall not exceed 0.20 pound per 100 pounds of salvageable material charged.
	OAC rule 3745-17-09(C)	This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
	OAC rule 3745-17-07(A)	The emissions limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The permittee shall apply for and, if required, obtain a final permit to install prior to equipment replacement or any proposed modification of equipment, materials processed, or production procedures, or any other change that would increase the potential emissions of any air pollutant. The stack from the incinerator shall be designed to minimize the impact of the emissions on employees, residents, visitors and nearby residences. The design of any unit shall meet good engineering practices so as to not effect the air intake for heating and cooling of any building, or operable windows, or doors. The permittee shall adjust, operate, and maintain the emissions unit covered under this permit in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The operator(s) shall be properly trained in the operation and maintenance of this unit. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.

B. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
2. The permittee shall not process parts which may emit vapors of toxic metals such as lead or mercury. The permittee shall not process parts or materials containing coatings or plastics which contain halogens such as chlorine, fluorine, or bromine. This emissions unit shall be used to process organic polymers containing only carbon, hydrogen, and oxygen.
3. 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.

4. 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.
 5. Maintenance of the secondary combustion chamber, that requires the shutdown or bypassing of the secondary chamber, must be accompanied by the complete shutdown of the primary combustion chamber of this incinerator.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature of the exhaust gases from the secondary combustion chamber 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.
 2. The permittee shall collect and record the following information for each day for the emissions unit:
 - a. A log of the downtime for the temperature monitoring and/or recording equipment, when the associated emissions unit was in operation; and
 - b. All periods of time during which the temperature of the exhaust gases from the incinerator, when the emissions unit was in operation, was below the minimum secondary combustion chamber exhaust gas temperature of 1400 degrees Fahrenheit as specified above.
 3. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 4. The permittee shall maintain a written log that records the amount of material charged on either a pounds per hour or pounds per batch basis.
- D. Reporting Requirements**
1. The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time (except momentary excursions) during which the temperature of the exhaust gases from the secondary combustion chamber does not comply with the temperature limitation specified above.

The quarterly deviation reports shall be submitted to the Director (appropriate District Office or local air agency) in accordance with the General Terms and Conditions of this permit. These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.
 2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 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: PE shall not exceed 0.20 pound per 100 pounds of salvageable material charged.

Applicable Compliance Method: If required, compliance shall be demonstrated by performing an emission test in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(8).

Emission Limitation: Visible PE from the stack shall not exceed 1% opacity, as a 6-minute average.

Applicable Compliance Method: Compliance shall be demonstrated based on visible particulate emission observations performed in accordance with the method and procedures specified in 40 CFR Part 60, Appendix A, Method 9.
- F. Miscellaneous Requirements**
1. None