

Facility ID: 0204000429 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: 0204000429 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>
IEE model Power Pak II, multiple chamber crematory rated at 100 lb/hr, controlled with an afterburner.	OAC rule 3745-31-05(A)(3) PTI 02-12603	See A.2.a thru A.2.f below.
	OAC rule 3745-17-09(B)	Same as the requirements established by OAC rule 3745-31-05(A)(3) stated in A.2.a below.
	OAC rule 3745-17-07(A)	Less stringent than the requirements established in by OAC rule 3745-31-05(A)(3) stated in A.2.f below.

2. Additional Terms and Conditions

- (a) 0.10 lb/hr of particulate matter emissions
0.125 lb/hr of sulfur dioxide emissions
0.15 lb/hr of organic compounds emissions
0.15 lb/hr of oxides of nitrogen emissions
0.50 lb/hr of carbon monoxide emissions
Visible emissions shall not exceed 5% opacity, except for 6 minutes in any 60-minute period during which opacity shall not exceed 10%

B. Operational Restrictions

1. This incinerator shall be operated only by personnel adequately trained.
2. The permittee shall operate and maintain the incinerator and continuous temperature monitor in such a way to meet all applicable engineering standards and practices and to meet the recommendations of the manufacturer in order to minimize the air contaminant emission releases.
3. The permittee shall not charge this emissions unit with "infectious waste" as defined in OAC rule 3745-75-01(C)(4).
4. The permittee shall maintain a minimum temperature of 1400 degrees Fahrenheit with a minimum of two-second retention time in the secondary combustion chamber during the entire burn cycle. This chamber shall be pre-heated for at least thirty (30) minutes prior to ignition of the charge.
5. The "HeatTimer model MLS-A" smoke alarm system shall be operated at all times the incinerator is in operation and shall be maintained in accordance with any and all recommendations of the manufacturer.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder for the secondary combustion chamber operating temperatures. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and applicable operating manual(s).
2. The permittee shall maintain copies of the records for the secondary combustion chamber temperature at the facility for a period of at least five years. Those records should be made available for Ohio EPA or their representatives to review during normal working hours.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which provide the following information for each period during which the secondary combustion chamber exhaust gas temperatures falls below 1400 degrees

Fahrenheit:

- a. the date of the excursion;
 - b. the time interval over which the excursion occurred;
 - c. the temperature values during the excursion;
 - d. the cause(s) for the excursion; and
 - e. the corrective action which has been or will be taken to prevent similar excursions in the future.
2. The permittee shall submit deviation (excursions) reports on a semi-annual basis, i.e., January 31 and July 31 of each year for the previous six calendar months.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1. and A.2. of these Special Terms and Conditions shall be determined in accordance with the following methods:

Emission Limitation: 0.10 pound of particulate matter emissions per hour,

Applicable Compliance Method: If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8), (USEPA Method 1-5, 40 CFR 60, Appendix A).

Emission Limitation: 0.125 pound of sulfur dioxide per hour.

Applicable Compliance Method: Compliance with this emission limit may be demonstrated by utilizing the following equation:

$$\text{ESOHR} = 2.5 \text{ (lbs SO}_2\text{/ton)} \times 100 \text{ (lbs/hour)} \times 1/2000 \text{ (tons/lbs)}$$

where:

2.5 pounds of sulfur dioxide per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12, and 100 lbs/hour is maximum capacity of incinerator; and

ESOHR = emissions of sulfur dioxide, in pounds per hour.

Emission Limitation: 0.15 pound of organic compounds per hour.

Applicable Compliance Method: Compliance with this emission limit may be demonstrated by utilizing the following equation:

$$\text{EOCHR} = 3.0 \text{ (lbs OC/ton)} \times 100 \text{ (lbs/hour)} \times 1/2000 \text{ (tons/lbs)}$$

where:

3.0 pounds of organic compounds per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12, and 100 lbs/hour is maximum capacity of incinerator; and

EOCHR = emission of organic compounds, in pounds per hour.

Emission Limitation: 0.15 pound of nitrogen oxides per hour;

Applicable Compliance Method: Compliance with this emission limit may be demonstrated by utilizing the following equation:

$$\text{ENOHR} = 3.0 \text{ (lbs NO}_x\text{/ton)} \times 100 \text{ (lbs/hour)} \times 1/2000 \text{ (tons/lbs)}$$

where:

3.0 pounds of nitrogen oxides per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12, and 100 lbs/hour is maximum capacity of incinerator; and

ENOHR = emission of nitrogen oxide compounds, in pounds per hour.

Emission Limitation: 0.50 pound of carbon monoxide per hour;

Applicable Compliance Method: Compliance with this emission limit may be demonstrated by utilizing the following equation:

$$\text{ECOHR} = 10.0 \text{ (lbs CO/ton)} \times 100 \text{ (lbs/hour)} \times 1/2000 \text{ (tons/lbs)}$$

where:

10.0 pounds of carbon monoxide per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12, and 100 lbs/hour is maximum capacity of incinerator; and

ECOHR = emissions of carbon monoxide, in pounds per hour.

Emission Limitation: Visible emissions shall not exceed 5% opacity, except for 6 minutes in any 60-minute period during which opacity shall not exceed 10%.

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

F. Miscellaneous Requirements

1. A copy of these terms and conditions shall be visibly posted near the incinerator.