

Facility ID: 0285030413 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: 0285030413 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>
Human Crematory Model ISI-H2, rated at 150 lbs/hr	OAC rule 3745-31-05(A)(3) (PTI 02-19449)	Emissions of nitrogen oxides (NOx) shall not exceed 0.23 lb/hr and 0.99 TPY.
		Emissions of carbon monoxide (CO) shall not exceed 0.75 lb/hr and 3.29 TPY.
		Emissions of particulate emissions (PE) shall not exceed 0.15 lb/hr and 0.66 TPY.
		Visible emissions from the stack serving this emissions unit shall not exceed five (5) percent opacity, as a six-minute average.
	OAC rule 3745-17-09(B)	PE from this emissions unit shall not exceed 0.10 lb of PE/100 lbs charged.
	OAC rule 3745-17-09(C)	The incinerator and 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 visible particulate emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The incinerator shall be operated only by adequately trained personnel.
2. The permittee shall operate and maintain the incinerator in such a way as to meet all applicable engineering standards and practices and the recommendations of the manufacturer in order to minimize air contaminant emission releases.
3. This unit shall not be used to dispose of infectious or medical waste as defined in OAC rule 3745-75-01(C)(4).
4. During a cremation burn, the temperature of the secondary combustion chamber shall be maintained at a minimum of 1,600 degrees Fahrenheit.
5. The secondary combustion chamber shall be pre-heated for a minimum of thirty (30) minutes prior to ignition of the charge or longer if necessary to reach 1,600 degrees Fahrenheit.

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 calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and applicable operating manual(s).
2. The permittee shall maintain copies of records of 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 temperature deviation (excursion) reports that identify all periods of time during which the secondary combustion chamber exhaust gas temperatures did not comply with the temperature limitation specified above, including:
 - 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.

This report shall be sent to the Ohio EPA, Northeast District Office within forty-five (45) days of the excursion.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
Emissions of NO_x shall not exceed 0.23 lb/hr and 0.99 TPY.

Applicable Compliance Method:
Compliance with the hourly NO_x emission limitation shall be determined using an emission factor of 3.0 lbs of NO_x/ton of material charged from AP-42 "Compilation of Air Pollutant Emission Factors," Table 2.1-12, dated 10/96.

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.225 lb/hr, rounded to 0.23 lb/hr for use as a permit limit) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:
Emissions of CO shall not exceed 0.75 lb/hr and 3.29 TPY.

Applicable Compliance Method:
Compliance with the hourly CO emission limitation shall be determined using an emission factor of 10.0 lbs of CO/ton of material charged from AP-42 "Compilation of Air Pollutant Emission Factors," Table 2.1-12, dated 10/96.

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.75 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:
Emissions of PE shall not exceed 0.15 lb/hr and 0.66 TPY.

Applicable Compliance Method:
Compliance with the hourly PE emission limitation shall be determined using an uncontrolled emission factor of 7.0 lbs of PE/ton of material charged from AP-42 "Compilation of Air Pollutant Emission Factors," Table 2.1-12, dated 10/96, along with an estimated control efficiency of 95 percent for the afterburner.

The TPY emission limitation was developed by multiplying the hourly emission limitation (0.15 lb/hr) by the maximum annual hours of operation (8,760 hours), and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the hourly allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Emission Limitation:
Visible emissions from the stack serving this emissions unit shall not exceed five (5) percent opacity, as a six-minute average.

Applicable Compliance Method:
Compliance with the visible emission limitation shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

F. Miscellaneous Requirements

1. None