

Facility ID: 1318007448 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: 1318007448 Emissions Unit ID: N004 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>
N004 - 150 lb/hr human cremation multiple chamber incinerator equipped with an afterburner.	OAC rule 3745-31-05(A)(3) PTI 13-04421 Issued 11/16/04	PE: 0.66 ton per year Control requirement - see A.2.a Visible particulate emissions from emissions unit N004 shall not exceed 5% opacity, as a six-minute average, except for six consecutive minutes in any continuous 60-minute period during which the opacity shall not exceed 10%, as a six-minute average.
	OAC rule 3745-17-07(A)	The requirements of this rule include compliance with OAC rules 3745-17-09(B) and 3745-17-09(C).
	OAC rule 3745-17-09(B)	The emission limitation specified by this rule is less stringent than the emission limitation established by OAC rule 3745-31-05 (A)(3). Particulate emissions shall not exceed 0.10 pound per 100 pounds of material charged.
	OAC rule 3745-17-09(C)	See A.2.c

2. Additional Terms and Conditions

- (a) The "Best Available Technology" (BAT) control requirement for emission unit N004 has been determined to be the use of an afterburner.
The human cremation multiple chamber incinerator, including all associated equipment and grounds, shall be designed, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).
This incinerator and all associated equipment and grounds shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

B. Operational Restrictions

1. The human cremation multiple chamber incinerator shall be installed, operated, and maintained in accordance with the manufacturer's specifications. The secondary combustion chamber shall be designed to have a residence time of not less than one second at a minimum of 1600 degrees Fahrenheit, as measured by the secondary chamber indicator, before ignition of the burner to start the cremation.
 - a. during startup-the temperature controller for the secondary chamber shall be set at a minimum of 1600 degrees Fahrenheit; and
 - b. for the first cremation of the day, or for a subsequent cremation after the unit has entered or completed the cool-down state, the secondary chamber temperature must reach a minimum of 1600 degrees Fahrenheit, as measured by the secondary chamber indicator, before ignition of the burner to start the cremation.
2. The incinerator shall not be operated unless the temperature monitoring devices are operating properly.
3. The incinerator shall not be used to dispose of any "medical/infectious waste" as defined in OAC rule 3745-75-01. Applicant shall have such waste disposed of in accordance with the applicable federal, state and local regulations.

4. To the extent possible, non-combustible material shall be removed from the material charged to this emissions unit.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall install, operate, and properly maintain a temperature gauge which monitors the temperature of the secondary combustion chamber.
 2. The permittee shall maintain daily records of the following information for emissions unit N004:
 - a. for each cremation, the temperature of the secondary chamber must be recorded just prior to main burner ignition.
- D. Reporting Requirements**
1. In accordance with the general terms and conditions of this permit, the permittee shall submit quarterly deviation (excursion) reports to the Cleveland Division of Air Quality (CDAQ) that provides the following information:
 - a. for each day during which the secondary combustion chamber exhaust gas temperature drop below the minimum temperature limitation:
 - i. the date of the excursion;
 - ii. the time interval during which each excursion occurred; and
 - iii. the temperature value during each excursion.
- E. Testing Requirements**
1. Compliance with the emission limits in Section A.10f of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation:
Visible particulate emissions shall not exceed 5%, as a six-minute average, except for six consecutive minutes in any continuous 60-minute period during which the opacity shall not exceed 10%, as a six-minute average.

Applicable Compliance Method:
Compliance shall be determined using USEPA Method 9 of 40 CFR Part 60, Appendix A and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation:
0.10 lb particulate emissions (PE) per 100 pounds of material charged

Applicable Compliance Method:
If required, compliance with this mass emission limitation shall be determined through stack testing per OAC rule 3745-17-03(B)(8) using Methods 1-5 of 40 CFR Part 60, Appendix A.
 - c. Emission Limitation:
0.66 ton PE per year

Applicable Compliance Method:
The annual limitation was determined using the following equation at the maximum charge weight of 150 lb/hr and 8,760 hr/yr:

$$(0.10 \text{ lb PE}/100 \text{ lbs}) \times (150 \text{ lb/hr}) \times (8,760 \text{ hr/yr}) \times (1 \text{ ton}/2000 \text{ lb}) = 0.66 \text{ TPY PE}$$

Therefore, provided compliance is maintained with the short term emission limit (0.10 lb PE/100 lbs charged), compliance will be assumed with the annual emission limitation.
- F. Miscellaneous Requirements**
1. These terms and conditions must be visibly posted near the incinerator.