Facility ID: 0679010306 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: 0679010306 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.

| Operations, Property, and/or Equipment | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| Cremator number 1, 150 pounds per hour human crematory | OAC rule 3745-31-05(A)(3) (PTI 06-07508) | Visible particulate emissions shall not exceed 5% opacity as a 6-minute average, except for 6 minutes in any continuous 60 minute period during which the opacity shall not exceed 10%.<br><br>Particulate emissions (PE) shall not exceed 0.66 ton/year.<br><br>The requirements of this rule 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 0.10 pound per 100 pounds of charge. |
| | OAC rule 3745-17-09(C) | This 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 emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). |

2. **Additional Terms and Conditions**

   (a) The stack shall be designed to minimize any building down wash impacts from emissions and/or odors on employees and nearby residences. The design shall meet good engineering practices so as not to result in excessive concentrations of air contaminants and/or odors in locations at, near or in such a configuration as to affect any air intake for heating and cooling of buildings or at operable windows or doors.
   The permittee shall not dispose of any ash from the cremation process, pursuant to ORC 3734.05(A)(1).

B. **Operational Restrictions**

1. The crematory shall not be charged until the temperature of the secondary combustion chamber reaches 1,600 degrees Fahrenheit. The secondary combustion chamber shall be designed for a 1-second (or more) retention time at 1,600 degrees Fahrenheit.

2. The secondary combustion chamber temperature shall be maintained at 1,600 degrees Fahrenheit or greater during each cremation cycle.

3. The permittee shall inspect this incinerator semiannually using preventive maintenance procedures recommended by the equipment manufacturer. Each inspection shall include a written log which documents the findings of the inspection and identifies any needed repairs to the unit. If repairs are needed, the incinerator shall not be operated if the operation would result in any exceedance of the emission limits detailed in this permit.

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 manufacturers recommendations, instructions, and

applicable operating manual(s).

2. The permittee shall maintain copies of the records of the secondary combustion chamber temperature at the facility. Those records shall 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 that provide the following information for each period during which the secondary combustion chamber temperature fell below the applicable limitations:

   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, Southeast District Office within thirty (30) days of the excursion.

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 0.10 pound per 100 pounds of charge.

   Applicable Compliance Method:

   Compliance has been demonstrated by the manufacturer's emission data of 0.08 lb PE/hr during cremation at 150 lbs/hr charge rate under test conditions for an identical emissions unit. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(8).
   Emission Limitation:

   PE shall not exceed 0.66 ton/yr.

   Applicable Compliance Method:

   This limit is based on the maximum rated capacity of the emissions unit and continuous operation as shown in the following equation.

   (150 pounds of waste per hour)(0.10 pound particulate/100 pounds charged)(8,760 hours per year)(0.0005 ton per pound) = 0.66 ton per year
   Emission Limitation:

   Visible particulate emissions shall not exceed 5% opacity as a 6-minute average, except for 6 minutes in any continuous 60 minute period during which the opacity shall not exceed 10%.

   Applicable Compliance Method:

   If required, compliance shall be demonstrated through visible emission observations performed in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 9.

F. **Miscellaneous Requirements**

1. None