Facility ID: 0278110747 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: 0278110747 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
crematory incinerator with primary and secondary combustion chambers, natural gas-fired with a rated capacity of 150 lbs/hr	OAC rule 3745-31-05(A)(3) (PTI 02-11009)	Visible particulate emissions shall not exceed 5% opacity, except for 6 minutes in any 60-minute period during which opacity shall not exceed 10%. Particulate emissions (PE) shall not exceed 0.15 lb/hr and 0.66 tpy. Sulfur dioxide (SO2) emissions shall not exceed 0.19 lb/hr and 0.82 tpy. Carbon monoxide (CO) emissions shall not exceed 0.75 lb/hr and 3.29 tpy. Nitrogen oxides (NOx) emissions shall not exceed 0.22 lb/hr and 0.99 tpy. Organic compounds (OC) emissions shall not exceed 0.22 lb/hr and 0.99 tpy.
	OAC rule 3745-17-07(A)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-09(B)	PE shall not exceed 0.10 pound per 100 pounds of material charged.
	OAC rule 3745-17-09(C)	See section A.2.a.

2. **Additional Terms and Conditions**

   (a) This incinerator and all associated equipment and grounds shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
   The incinerator shall be operated and maintained in accordance with good engineering practices and the recommendations of the manufacturer in order to minimize air contaminant emissions.

B. **Operational Restrictions**

1. The secondary combustion chamber must be operated at a temperature of at least 1,600 degrees Fahrenheit with a minimum of a 2 second retention time. This chamber shall be pre-heated 30 minutes prior to ignition of charge and continued in use during the entire burn cycle.

2. The incinerator shall be operated only by adequately trained personnel.

3. This emissions unit shall not be used to dispose of infectious or medical waste as defined in OAC rule 3745-75-01 (B)(27).

4. The permittee shall operate and maintain an opacity monitor to regulate the operation of the emissions unit. This monitor shall be cleaned and calibrated as recommended by the manufacturer.

5. A copy of these terms and conditions shall be posted near the incinerator in a visible location.

C. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor and recorder that measures and records the combustion temperature within the crematory incinerator 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.

D. **Reporting Requirements**

1. The permittee shall submit temperature deviation (excursion) reports that identify all periods of time during which the temperature of the secondary combustion chamber does not comply with the temperature limitation specified above.

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:

Visible particulate 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:

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.
Emission Limitation:

PE shall not exceed 0.15 lb/hr.
PE shall not exceed 0.10 pound per 100 pounds of 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:

PE shall not exceed 0.66 tpy.

Applicable Compliance Method:

The ton per year emission limitation was developed by multiplying the short-term allowable particulate emission limitation (0.10 lb/100 lbs charged) by the maximum rated capacity of the incinerator (150 lbs/hr) and by the maximum annual hours of operation (8760 hrs), and then dividing by 2000 lbs/ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

SO2 emissions shall not exceed 0.19 lb/hr.

Applicable Compliance Method:

Compliance with the hourly SO2 emission limitation shall be demonstrated by multiplying the SO2 emission factor of 2.5 lbs/ton by the maximum rated capacity of the incinerator (150 lbs/hr), and then dividing by 2000 lbs/ton.

The SO2 emission factor was obtained from AP-42, 5th Edition, Chapter 2.1 (Refuse Combustion), Table 2.1-12, dated October, 1996.
Emission Limitation:

SO2 emissions shall not exceed 0.82 tpy.

Applicable Compliance Method:

The ton per year emission limitation was developed by multiplying the short-term allowable SO2 emission limitation calculated above (0.19 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

CO emissions shall not exceed 0.75 lb/hr.

Applicable Compliance Method:

Compliance with the hourly CO emission limitation shall be demonstrated by multiplying the CO emission factor of 10 lbs/ton by the maximum rated capacity of the incinerator (150 lbs/hr), and then dividing by 2000 lbs/ton.

The CO emission factor was obtained from AP-42, 5th Edition, Chapter 2.1 (Refuse Combustion), Table 2.1-12, dated October, 1996.
Emission Limitation:

CO emissions shall not exceed 3.29 tpy.

Applicable Compliance Method:

The ton per year emission limitation was developed by multiplying the short-term allowable CO emission limitation calculated above (0.75 lbs/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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

NOx emissions shall not exceed 0.22 lb/hr.

Applicable Compliance Method:

Compliance with the hourly NOx emission limitation shall be demonstrated by multiplying the NOx emission factor of 3 lbs/ton by the maximum rated capacity of the incinerator (150 lbs/hr), and then dividing by 2000 lbs/ton.

The NOx emission factor was obtained from AP-42, 5th Edition, Chapter 2.1 (Refuse Combustion), Table 2.1-12, dated October, 1996.
Emission Limitation:

NOx emissions shall not exceed 0.99 tpy.

Applicable Compliance Method:

The ton per year emission limitation was developed by multiplying the short-term allowable NOx emission limitation calculated above (0.22 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.
Emission Limitation:

OC emissions shall not exceed 0.22 lb/hr.

Applicable Compliance Method:

Compliance with the hourly OC emission limitation shall be demonstrated by multiplying the OC emission factor of 3 lbs/ton by the maximum rated capacity of the incinerator (150 lbs/hr), and then dividing by 2000 lbs/ton.

The OC emission factor was obtained from AP-42, 5th Edition, Chapter 2.1 (Refuse Combustion), Table 2.1-12, dated October, 1996.
Emission Limitation:

OC emissions shall not exceed 0.99 tpy.

Applicable Compliance Method:

The ton per year emission limitation was developed by multiplying the short-term allowable OC emission limitation calculated above (0.22 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 short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

F. **Miscellaneous Requirements**

1. None