

Facility ID: 1413080444 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: 1413080444 Emissions Unit ID: N002 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>
N002-100 pounds/hour incinerator with secondary combustion chamber used for the cremation of animal remains	OAC rule 3745-31-05(A)(3) (PTI 14-05080)	Particulate Emissions (PE) and Particulate matter less than 10 microns in diameter (PM10) shall not exceed 0.10 pound per hour and 0.44 ton per year.
		Nitrogen Oxide (NOx) emissions shall not exceed 0.43 pound per hour and 1.88 ton per year.
		Carbon Monoxide (CO) emissions shall not exceed 0.28 pound per hour and 1.23 ton per year.
		Organic Compound (OC) emissions shall not exceed 0.01 pound per hour and 0.04 ton per year.
		Sulfur Dioxide (SO2) emissions shall not exceed 0.12 pound per hour and 0.53 ton per year.
		Visible particulate emissions from the stack shall not exceed 5% opacity as a six-minute average except for one six-minute period in any continuous sixty-minute period during which the opacity shall not exceed 10% as a six-minute average.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-09(B) and 3745-17-09(C).
	See terms A.2.c, B.1, B.2 and B.3.	
	OAC rule 3745-17-09(B)	Particulate Emissions shall not exceed 0.10 pound PE/100 pounds material charged.
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-09(C)	See term A.2.c.
	OAC rule 3745-23-06(B)	See term A.2.d.

2. Additional Terms and Conditions

- (a) The hourly and annual emission limitations outlined above are based on the emissions unit's potential to emit (PTE). Therefore, no records are required to demonstrate compliance with these limits. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by maintaining a secondary combustion chamber temperature at 1600 degrees Fahrenheit or greater during operation of the incinerator and meeting the specified emission rates. Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors. The permittee shall satisfy the "latest available control techniques and operating practices" required

pursuant to OAC rule 3745-23-06(B) by complying with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded and therefore no longer a part of State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-23-06, the requirement to satisfy "latest available control techniques and operational practices" still exists as part of the federally-approved SIP for Ohio.

B. Operational Restrictions

1. The secondary combustion chamber temperature shall be maintained at 1600 degrees Fahrenheit or greater during each cremation cycle.
2. The type of waste to be burned in this emissions unit shall be limited to type zero and four waste (pathological waste).
3. Proper operating procedures shall be employed at all times during the operation of this emissions unit. These procedures shall include a pre-heating cycle as specified by the manufacturer, or an equivalent pre-heating system. The preheated temperature for the secondary combustion chamber of the crematorium shall be at least 1600 degrees Fahrenheit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the secondary combustion chamber temperature, in degrees Fahrenheit, during each cremation cycle. 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. The monitoring and recording devices shall be capable of accurately measuring the desired parameter.
2. The permittee shall maintain a log of all periods of time when the emissions unit is in operation and the secondary combustion chamber temperature was less than 1600 degrees Fahrenheit.
3. The permittee shall maintain a log of all periods of time when the emissions unit is used to combust waste types other than those permitted in term and condition B.2.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of all periods of time during which the secondary combustion chamber temperature was below 1600 degrees Fahrenheit during operation of this emissions unit. The notification shall include a copy of such record, including any corrective action(s) taken, and shall be sent to the Hamilton County Department of Environmental Services within 45 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of all periods of time during which the emissions unit is used to combust waste types other than those permitted in term and condition B.2. The notification shall include a copy of such record, including any corrective action(s) taken, and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.10 pound PE/100 pounds of material charged

Applicable Compliance Method:
If required compliance with this mass emission limitation shall be based upon stack testing conducted using Methods 1 through 5 from 40 CFR Part 60.
 - b. Emission Limitation:
0.10 lb/hr and 0.44 TPY PM/PM10

Applicable Compliance Method:
The 0.10 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.44 TPY limitation was developed by multiplying the 0.10 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - c. Emission Limitation:
0.43 lb/hr and 1.88 TPY NOx

Applicable Compliance Method:
The 0.43 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 1.88 TPY limitation was developed by multiplying the 0.43 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - d. Emission Limitation:
0.28 lb/hr and 1.23 TPY CO

Applicable Compliance Method:
The 0.28 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 1.23 TPY limitation was developed by multiplying the 0.28 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - e. Emission Limitation:

0.01 lb/hr and 0.04 TPY OC

Applicable Compliance Method:

The 0.01 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.04 TPY limitation was developed by multiplying the 0.01 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- f. Emission Limitation:
0.12 lb/hr and 0.53 TPY SO₂

Applicable Compliance Method:

The 0.12 lb/hr emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.53 TPY limitation was developed by multiplying the 0.12 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- g. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
- h. Compliance with the secondary combustion chamber minimum temperature requirement shall be demonstrated by the recordkeeping requirements specified in sections C.1.
2. Compliance with the type of waste combusted restriction shall be demonstrated by the recordkeeping requirements specified in term and condition C.3.

F. **Miscellaneous Requirements**

1. None