

Facility ID: 1431332435 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: 1431332435 Emissions Unit ID: N003 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
N003-150 pounds/hour capacity animal waste incinerator with secondary combustion chamber	OAC rule 3745-31-05(A)(3) (PTI 14-05030)	Particulate emissions (PE)* from the animal waste incinerator shall not exceed 0.15 pound per hour and 0.66 ton per year. *PE = PM10 Nitrogen oxide (NOx) emissions from the animal waste incinerator shall not exceed 0.43 pound per hour and 1.88 tons per year. Carbon monoxide (CO) emissions from the animal waste incinerator shall not exceed 0.28 pound per hour and 1.23 tons per year. Organic compound (OC) emissions from the animal waste incinerator shall not exceed 0.01 pound per hour and 0.04 ton per year. Sulfur dioxide (SO2) emissions from the animal waste incinerator 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 term and conditions A.2.b and A.2.c. Particulate emissions (PE) from the animal waste incinerator shall not exceed 0.10 pounds PE per 100 pounds material charged. See term and condition A.2.b. 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(B)	
	OAC rule 3745-17-09(C)	
	OAC rule 3745-17-07(A)	

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 limitations.

Incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.
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.

B. Operational Restrictions

1. The type of waste to be burned in this emissions unit shall be limited to type four waste (pathological waste).

C. Monitoring and/or Record Keeping Requirements

1. 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 incinerator shall be at least 1600 degrees Fahrenheit.
2. 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.
3. 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.

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.

E. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitations:

Particulate emissions (PE)* shall not exceed 0.15 pound per hour and 0.66 ton per year.

*PE = PM10

Applicable Compliance Method:

The 0.15 pound per hour emission limitation is based on stack test information submitted by the permittee in the PTI application. The 0.66 TPY limitation was developed by multiplying the 0.15 pound per hour 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.

b. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.10 pounds PE per 100 pounds material charged.

Applicable Compliance Method:

If required, compliance with this mass emission limitation shall be based upon stack testing conducted using Methods 1- 5 from 40 CFR Part 60.

c. Emission Limitations:

Nitrogen oxide (NOx) emissions shall not exceed 0.43 pound per hour and 1.88 tons per year.

Applicable Compliance Method:

The 0.43 pound per hour 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 pound per hour 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 Limitations:

Carbon monoxide (CO) emissions shall not exceed 0.28 pound per hour and 1.23 tons per year.

Applicable Compliance Method

The 0.28 pound per hour 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 pound per hour 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 Limitations:

Organic compound (OC) emissions from the animal waste incinerator shall not exceed 0.01 pound per hour and 0.04 ton per year.

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 Limitations:

Sulfur dioxide (SO2) emissions from the animal waste incinerator shall not exceed 0.12 pound per hour and 0.53 ton per year.

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. Emission Limitation:

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.

Applicable Compliance Method:

Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.

2. Compliance with the operational restriction in Section C of these terms and conditions shall be determined in accordance with the following method(s):

a. Operational Restriction:

The secondary chamber combustion temperature within the waste incinerator shall not fall below 1600 degrees Fahrenheit.

Applicable Compliance Method:

Compliance with the secondary combustion chamber minimum temperature requirement shall be demonstrated by the record keeping requirements specified in terms C.2.

F. **Miscellaneous Requirements**

1. None