

Facility ID: 0247050918 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: 0247050918 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>
BL 2000 animal cremation unit #02 with a maximum capacity of 350 pounds/hour, equipped with an afterburner	OAC rule 3745-31-05(A)(3) (PTI 02-12252)	Particulate emissions (PE) shall not exceed 0.35 pound per hour and 1.53 tons per year.
		Organic compound (OC) emissions shall not exceed 0.53 pound per hour and 2.32 tons per year.
		Nitrogen oxides (NOx) emissions shall not exceed 0.53 pound per hour and 2.32 tons per year.
		Carbon monoxide (CO) emissions shall not exceed 1.75 pounds per hour and 7.67 tons per year.
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 5% opacity as a 6-minute average.
	OAC rule 3745-17-09(B)	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(C)	PE shall not exceed 0.10 pound per 100 pounds of material charged. See section A.2.a below.

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.

B. Operational Restrictions

1. This incinerator shall be operated only by adequately trained personnel.
2. The permittee shall operate and maintain the incinerator in such a way as to meet all applicable engineering standards and practices and the recommendations of the manufacturer in order to minimize the air contaminant emission releases.
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 maintain a minimum temperature of 1600 degrees Fahrenheit in the secondary combustion chamber during the entire burn cycle.

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 calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and applicable operating manual(s).
2. The permittee shall keep a log of the charge rate, in pounds per hour, for each day that the unit is in operation.

3. The permittee shall maintain copies of the records for the secondary combustion chamber temperature and the daily log of charge rates at the facility for a period of at least five years. These 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 for all hours of operation during which the charge rate exceeded 350 pounds per hour, including the actual charge rates for all such hours of operation.
2. The permittee shall submit deviation (excursion) reports that provide the following information for each period during which the secondary combustion chamber exhaust gas temperature falls below 1600 degrees Fahrenheit:
 - 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.
3. The permittee shall submit deviation (excursions) reports on a semi-annual basis, i.e., January 31 and July 31 of each year for the previous 6 calendar months.

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 Limitations:

PE shall not exceed 0.35 pound per hour.
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 1.53 tons per year.

Applicable Compliance Method:

The tons 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 (350 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:

OC emissions shall not exceed 0.53 pound per hour.

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 (350 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 2.32 tons per year.

Applicable Compliance Method:

The tons per year emission limitation was developed by multiplying the short-term allowable OC emission limitation calculated above (0.53 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:

NOx emissions shall not exceed 0.53 pound per hour.

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 (350 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 2.32 tons per year.

Applicable Compliance Method:

The tons per year emission limitation was developed by multiplying the short-term allowable NOx emission

limitation calculated above (0.53 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 1.75 pounds per hour.

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 (350 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 7.67 tons per year.

Applicable Compliance Method:

The tons per year emission limitation was developed by multiplying the short-term allowable CO emission limitation calculated above (1.75 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:

Visible particulate emissions shall not exceed 5% opacity as a 6-minute average.

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.

F. Miscellaneous Requirements

1. None