

Facility ID: 0278000743 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: 0278000743 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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
crematory incinerator	OAC rule 3745-31-05(A)(3) (PTI No. 02-10414)	Visible particulate emissions shall not exceed 5% opacity, except for six minutes in any 60-minute period during which opacity shall not exceed 10%.
		Particulate emissions (PE) shall not exceed 0.125 lb/hr and 0.55 tons per year (TPY).
		Sulfur dioxide (SO2) emissions shall not exceed 0.16 lb/hr and 0.68 TPY.
		Carbon monoxide (CO) emissions shall not exceed 0.06 lb/hr and 0.19 TPY.
	OAC rule 3745-17-09	Nitrogen oxides (NOx) emissions shall not exceed 0.19 lb/hr and 0.82 TPY.
		Organic compounds (OC) emissions shall not exceed 0.19 lb/hr and 0.82 TPY.
		See section B. below.
	OAC rule 3745-17-07 OAC rule 3745-15-07	PE shall not exceed 0.10 pound per 100 pounds of material charged.
		See section A.2.a below. See section A.2.b below.

2. **Additional Terms and Conditions**
 - (a) The visible particulate emissions limitation based on OAC rule 3745-17-07 is less stringent than the visible particulate emissions limitation established pursuant to OAC rule 3745-31-05. The incinerator and associated equipment and grounds shall be designed, operated and maintained to prevent the emissions 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 chamber must be operated at a temperature of at least 1,600 degrees Fahrenheit with a minimum of a two second retention time. This chamber shall be pre-heated thirty minutes prior to ignition of charge and continued in use during the entire burn cycle.
2. The incinerator shall be operated only by personnel adequately trained to do so.
3. This incinerator shall not be used to dispose of infectious, medical or radiological waste.
4. The permittee shall operate and maintain an opacity monitor to regulate the operation of the emission unit. This monitor shall be cleaned and calibrated as recommended by the manufacturer.

5. A copy of these terms and conditions must be visibly posted near the incinerator.
- 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 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 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 six minutes in any 60-minute period during which opacity shall not exceed 10%.
- Applicable Compliance Method:
- OAC rule 3745-17-03(B)(1), if requested.
- Emission Limitation:
- PE shall not exceed 0.10 pound per 100 pounds of material charged, 0.125 lb/hr and 0.55 TPY.
- Applicable Compliance Method:
- If required, compliance with the particulate emission limitation shall be determined through emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Method 5.
- Tons per year shall be determined by using the allowable emissions rate.
- $0.125 \text{ lb/hr} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.55 \text{ TPY}$
- Emission Limitation:
- Sulfur dioxide (SO₂) emissions shall not exceed 0.16 lb/hr and 0.68 TPY.
- Applicable Compliance Method:
- Compliance shall be based on a one time calculation by using emission factors from AP-42, Table 2.1-12 (1993 update) for refuse combustors and the maximum capacity of the incinerator.
- $2.5 \text{ lbs/ton(EF)} \times 125 \text{ lbs/hr(max. cap.)} \times \text{ton}/2000 \text{ lbs} = 0.16 \text{ lb/hr}$
- $0.16 \text{ lb/hr} \times 8760 \text{ hrs/year} \times \text{ton}/2000 \text{ lbs} = 0.68 \text{ TPY}$
- Emission Limitation:
- Carbon monoxide (CO) emissions shall not exceed 0.06 lb/hr and 0.19 TPY.
- Applicable Compliance Method:
- Compliance shall be based on a one time calculation by using emission factors from AP-42, Table 2.1-12 (1993 update) for refuse combustors and the maximum capacity of the incinerator.
- $1.0 \text{ lbs/ton(EF)} \times 125 \text{ lbs/hr(max. cap.)} \times \text{ton}/2000 \text{ lbs} = 0.06 \text{ lb/hr}$
- $0.06 \text{ lb/hr} \times 8760 \text{ hrs/year} \times \text{ton}/2000 \text{ lbs} = 0.19 \text{ TPY}$
- Emission Limitation:
- Nitrogen oxides (NO_x) emissions shall not exceed 0.19 lb/hr and 0.82 TPY.
- Applicable Compliance Method:
- Compliance shall be based on a one time calculation by using emission factors from AP-42, Table 2.1-12 (1993 update) for refuse combustors and the maximum capacity of the incinerator.
- $3.0 \text{ lbs/ton(EF)} \times 125 \text{ lbs/hr(max. cap.)} \times \text{ton}/2000 \text{ lbs} = 0.19 \text{ lb/hr}$
- $0.19 \text{ lb/hr} \times 8760 \text{ hrs/year} \times \text{ton}/2000 \text{ lbs} = 0.82 \text{ TPY}$
- Emission Limitation:
- Organic compounds (OC) emissions shall not exceed 0.19 lb/hr and 0.82 TPY.
- Applicable Compliance Method:
- Compliance shall be based on a one time calculation by using emission factors from AP-42, Table 2.1-12 (1993 update) for refuse combustors and the maximum capacity of the incinerator.
- $3.0 \text{ lbs/ton(EF)} \times 125 \text{ lbs/hr(max. cap.)} \times \text{ton}/2000 \text{ lbs} = 0.19 \text{ lb/hr}$

$$0.19 \text{ lb/hr} \times 8760 \text{ hrs/year} \times \text{ton}/2000 \text{ lbs} = 0.82 \text{ TPY}$$

F. **Miscellaneous Requirements**

1. None