

Facility ID: 0247050918 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: 0247050918 Emissions Unit ID: N003 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 equipped with an afterburner: maximum capacity of 350 pounds/hour	OAC rule 3745-31-05(A)(3) PTI 02-12252	PM: 1.53 tons/year OC: 0.53 pound/hour, 2.32 tons/year NOx: 0.53 pound/hour, 2.32 tons/year CO: 1.75 pound/hour, 7.67tons/year
	OAC 3745-17-07 OAC rule 3745-17-09	Visible emissions shall not exceed five percent opacity as a six-minute average. Less stringent than limit from 3745-31-05. PE: 0.10 pound per 100 pounds of refuse charge.

2. **Additional Terms and Conditions**
  - (a) None

**B. Operational Restrictions**

1. This incinerator shall be operated only by personnel adequately trained.
2. The permittee shall operate and maintain the incinerator in such a way as to meet all applicable engineering standards and practices and to meet the recommendations of the manufacturer, in order to minimize the air contaminant emission releases.
3. The permittee shall not charge this emissions unit with "infectious waste" as defined in OAC rule 3745-75-01(C)(4).
4. The permittee shall maintain a minimum temperature of 1600 degrees Fahrenheit in the secondary combustion chamber during the entire burn cycle.
5. The smoke alarm shall be operated at all times the incinerator is in operation and shall be maintained in accordance with any and all recommendations of the manufacturer.

**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 of the daily log of charge rates at the facility for a period of at least five years. Those records should 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 which provide the following information for each period during which the secondary combustion chamber exhaust gas temperatures 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 six calendar months.

**E. Testing Requirements**

1. Compliance with the emission limitations in section A.1. of these Special Terms and Conditions shall be determined in accordance with the following methods:  
Emission Limitation: 0.10 pound of particulate emissions per 100 pounds of material charged.  
  
Applicable Compliance Method: If required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8).  
Emission Limitation: Visible particulate emissions shall not exceed five percent, 5%, as a six-minute average.  
  
Applicable Compliance Method: USEPA Method 9 (40 CFR Part 60, Appendix A.)
2. Emission Limitation: 0.53 pounds of organic compounds per hour and 2.32 tons per year;  
  
Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:  
  
$$\text{EOCHR} = 3.0 \text{ (lbs. OC/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$
  
$$\text{EOCYR} = \text{EOCHR} \times 1/2000 \text{ (tons/lbs.)} \times 8760 \text{ hours/year}$$
  
where:  
  
3.0 pounds of organic compounds per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12. and 350 lbs/hour is maximum capacity of incinerator; and  
EOCHR = emission of organic compounds, in pounds per hour; and  
EOCYR = emission of organic compounds, in tons per year.
3. Emission Limitation: 0.53 pounds of nitrogen oxides per hour and 2.32 tons per year  
  
Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:  
  
$$\text{ENOHR} = 3.0 \text{ (lbs. NOx/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$
  
$$\text{ENOYR} = \text{ENOHR} \times 1/2000 \text{ (tons/lbs.)} \times 8760 \text{ (hours/year)}$$
  
where:  
  
3.0 pounds of nitrogen oxides per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12. and 350 lbs/hour is maximum capacity of incinerator; and  
ENOHR = emission of nitrogen oxides, in pounds per hour; and  
ENOYR = emission of nitrogen oxides, in tons per year.
4. Emission Limitation: 1.75 pounds of carbon monoxide per hour and 7.67 tons per year  
  
Applicable Compliance Method: Compliance with these emission limits shall be demonstrated by utilizing the following equations:  
  
$$\text{ECOHR} = 10.0 \text{ (lbs. CO/ton)} \times 350 \text{ (lbs./hour)} \times 1/2000 \text{ (tons/lbs.)}$$
  
$$\text{ECOYR} = \text{ECOHR} \times 1/2000 \text{ (tons/lbs.)} \times 8760 \text{ (hours/year)}$$
  
where:  
  
10.0 pounds of carbon monoxide per ton is the emission factor taken from AP-42, July 1993 version, "Section 2.1 Refuse Combustion", Table 2.1-12. and 350 lbs/hour is maximum capacity of incinerator; and  
ECOHR = emissions of carbon monoxide, in pounds per hour; and  
ECOYR = emissions of carbon monoxide, in tons per year.
5. Emission Limitation: 1.53 tons particulate emissions per year  
  
Applicable Compliance Method: Compliance with this emission limit shall be demonstrated by utilizing the following equation:  
  
$$\text{EPMYR} = 0.290 \text{ (lbs. PE/hr)} \times 8760 \text{ (hours/yr)} \times 1/2000 \text{ (tons/lbs.)}$$
  
where:  
  
0.290 lbs/hr PE is based on the emissions testing that was done on the emissions unit on March 12, 1999.

**F. Miscellaneous Requirements**

1. None