

Facility ID: 1431332435 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: 1431332435 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>
pathological incinerator w/ afterburner	OAC rule 3745-31-05 (PTI 14-2167)	PM: 0.20 lb/100 lb combustible material charged, 0.79 TPY CO: 0.66 TPY NOx: 0.59 TPY HCl: 0.11 TPY
	OAC rule 3745-17-07(A)(1)	See section A.2. below. The visible particulate emission limitations are less stringent than the limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-17-09(B)	The particulate emission limitation given in this rule is same as the limitation established pursuant to OAC rule 3745-31-05.

2. **Additional Terms and Conditions**
 - (a) Visible particulate emissions shall not exceed 10% opacity, as a 6-minute average, except for 6 minutes in any continuous 60-minute period during which the opacity shall not exceed 30%.

B. Operational Restrictions

1. Operators of this emissions unit shall be instructed in and follow the proper operating and charging techniques of the incinerator.
2. The appropriate license shall be obtained if radioactive material will be burned in this emissions unit. Also, the emission of radioactive materials shall not exceed the limit specified in Appendix B, Table II, 10 CFR, Part 20.
3. Materials listed as hazardous in 40 CFR, Part 261, Subpart D shall not be incinerated.
4. The incinerator, including all associated equipment and grounds, shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.
5. The secondary chamber shall be operated at a temperature not less than 1800 degrees Fahrenheit except during charging, with a mean residence time of not less than two seconds.
6. During each charging period the temperature of the secondary chamber may drop to no lower than 1650 degrees Fahrenheit, except for a period not to exceed 4 minutes.
7. Both primary and secondary burners shall be operated during the entire time the incinerator is in use.
8. The rated capacity (i.e., 100 lbs/hr) of this incinerator shall not be exceeded.
9. The permittee shall not burn more than 1.0 lb of polyvinyl chloride per day in this emissions unit.
10. No waste defined as infectious according to OAC rule 3745-27-01 shall be burned in this unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the amount of type 4 waste (human and animal remains) burned.

2. The permittee shall maintain records of the secondary chamber temperature during the operation of incinerator and such records shall indicate the periods of time when charging of the incinerator occurred.
3. The permittee shall maintain daily records of the amount of polyvinyl chloride, radioactive material, hazardous waste, and/or infectious waste burned in the incinerator.
4. The permittee shall maintain daily records of the number of hours waste is burned in the incinerator.
5. The permittee shall calculate and maintain daily records of the average hourly amount of waste burned, in pounds per hour (C.1/C.4).
6. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the secondary combustion exhaust gas temperature when the incinerator is in operation. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within plus or minus 0.75 percent of the temperature being measured or plus or minus 2.5 degrees Fahrenheit, whichever is greater. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

D. Reporting Requirements

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any record showing that the secondary chamber temperature (except for periods of charging) fell below 1800 degrees Fahrenheit or that the secondary chamber temperature fell below 1650 degrees Fahrenheit for longer than 4 minutes during charging of the incinerator. This notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the exceedance occurs.
2. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any daily record showing that more than 1.0 lb of polyvinyl chloride was burned or that any hazardous waste, radioactive material, or infectious waste was burned in this emissions unit. This notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the exceedance occurs.

E. Testing Requirements

1. Compliance with the emission limitations in Sections A.1. and A.2. and the operational restrictions of Section B. of these terms and conditions shall be determined in accordance with the following methods:

a. Emission limitation:

10% opacity, as a 6-minute average, except for 6 minutes in any continuous 60-minute period during which the opacity shall not exceed 30%

Applicable compliance method:

Compliance with the emission limitation identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

b. Emission limitation:

0.79 TPY of PM

Applicable compliance method:

Compliance with the PM emission limitation shall be determined by using the appropriate emission factor from AP-42, Table 2.1-9 (revised 10/96), "Emission Factors For Modular Starved-Air Combustors." (total PM emissions per year = 3.43 lbs/ton of combustible material charged x total tons of combustible material charged per year / 2000 lbs/ton)

c. Emission limitation:

0.66 TPY of CO

Applicable compliance method:

Compliance with the CO emission limitation shall be determined by using the appropriate emission factor from AP-42, Table 2.1-9 (revised 10/96), "Emission Factors For Modular Starved-Air Combustors." (total CO emissions per year = 0.29 lb/ton of combustible material charged x total tons of combustible material charged per year / 2000 lbs/ton)

d. Emission limitation:

0.59 TPY of NOx

Applicable compliance method:

Compliance with the NOx emission limitation shall be determined by using the appropriate emission factor from AP-42, Table 2.1-9 (revised 10/96), "Emission Factors For Modular Starved-Air Combustors." (total NOx emissions per year = 3.16 lbs/ton of combustible material charged x total tons of combustible material charged per year / 2000 lbs/ton)

e. Emission limitation:

0.11 TPY of HCl

Applicable compliance method:

Compliance with the HCl emission limitation shall be determined by using the appropriate emission factor from AP-42, Table 2.1-9 (revised 10/96), "Emission Factors For Modular Starved-Air Combustors." (total HCl emissions per year = 2.15 lbs/ton of combustible material charged x total tons of combustible material charged per year / 2000 lbs/ton)

f. Emission limitation:

0.20 lb/100 lb of combustible material charged

Applicable compliance method:

Compliance with the allowable PM emission limitation shall be determined, if required, by testing using Method 5 from 40 CFR, Part 60, Appendix A.

g. Operational restriction:

The secondary chamber shall be operated at a temperature not less than 1800 degrees Fahrenheit except during charging.

Applicable compliance method:

Compliance shall be determined by the record keeping requirement in Section C.2.

h. Operational restriction:

During each charging period, the temperature of the secondary chamber may drop to no lower than 1650 degrees Fahrenheit, except for a period not to exceed 4 minutes.

Applicable compliance method:

Compliance shall be determined by the record keeping requirement in Section C.2.

i. Operational restriction:

1.0 lb of PVC burned per day

Applicable compliance method:

Compliance shall be determined by the record keeping requirement in Section C.3.

j. Operational restriction:

The rated capacity (i.e., 100 lbs/hr) of this incinerator shall not be exceeded.

Applicable compliance method:

Compliance shall be determined by the record keeping requirement in Section C.1.

k. Operational restriction:

Hazardous material, infectious waste, and radioactive waste (except if license is obtained) shall not be incinerated.

Applicable compliance method:

Compliance shall be determined by the record keeping requirement in Section C.3.

F. **Miscellaneous Requirements**

1. None