

Facility ID: 1431052164 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: 1431052164 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>
N001-Burn Off Oven	OAC rule 3745-31-05(A)(3) (14-05078)	Particulate emissions (PE) shall not exceed 0.03 pound per hour (lb/hr) and 0.13 ton per year (TPY).
		Particulate matter emissions with a diameter of 10 microns or less (PM10) shall not exceed 0.03 lb/hr and 0.13 TPY.
		Nitrogen oxides (NOx) emissions shall not exceed 3.79 lb per day (lb/day) and 0.69 TPY.
		Carbon monoxide (CO) emissions shall not exceed 0.38 lb/day and 0.07 TPY.
		Organic compound (OC) emissions shall not exceed 0.77 lb/day and 0.14 TPY.
		Sulfur dioxide (SO2) emissions shall not exceed 0.38 lb/day and 0.07 TPY.
		Visible particulate emissions from the stack shall not exceed 10% 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 20% 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).
	OAC rule 3745-17-07(A)(1)	See Section A.2.a below.
	OAC rule 3745-17-09(B)	The visible PE limitations specified by this rule are less stringent than the visible PE limitation established by 3745-31-05(A)(3).
	OAC rule 3745-17-09(C)	PE in exhaust gasses shall not exceed 0.10 lb/100 lbs of material charged.
		See Section A.2.b below.

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.

B. Operational Restrictions

1. The secondary combustion chamber temperature shall be maintained at 1500 degrees Fahrenheit or greater during each batch cycle.
 2. 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 burn off oven shall be at least 1500 degrees Fahrenheit.
- 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 secondary combustion chamber temperature, in degrees Fahrenheit, during each batch cycle. The temperature monitor and recorder shall be 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.
 2. 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 1500 degrees Fahrenheit.
- D. Reporting Requirements**
1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of all periods of time during which the secondary combustion chamber temperature was below 1500 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. 1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
PE in exhaust gasses shall not exceed 0.10 lb/100 lbs of 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.
 - b. Emission Limitations:
PE/PM10 emissions shall not exceed 0.03 lb/hr and 0.13 TPY.
 - Applicable Compliance Method:
The 0.03 lb/hour emission limitation is based on the following equation:

$$0.10 \text{ lb of PE/PM10}/100 \text{ lbs of material charged} \times 25.5 \text{ lbs of material charged/hr} = 0.03 \text{ lb of PE/PM10 hr.}$$

$$0.03 \text{ lb of PE/PM10/hr} \times 8760 \text{ hours/yr} \times \text{ton}/2000 \text{ lbs} = 0.13 \text{ TPY of PE/PM10.}$$
 - c. Emission Limitation:
Nitrogen oxides (NOx) emissions shall not exceed 3.79 lb per day (lb/day) and 0.69 TPY.
 - Applicable Compliance Method:
The emission limitations are based on stack test information submitted by the permittee in the PTI 14-05078 submitted on 12/26/00 and were calculated using the following equations:

$$0.158 \text{ lb of NOx/hr} \times 24 \text{ hrs/day} = 3.79 \text{ lbs of NOx/day.}$$

$$0.158 \text{ lb of NOx/hr} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.69 \text{ TPY of NOx.}$$
 - d. Emission Limitations:
Carbon monoxide (CO) emissions shall not exceed 0.38 lb/day and 0.07 TPY.
 - Applicable Compliance Method:
The emission limitations are based on stack test information submitted by the permittee in the PTI 14-05078 submitted on 12/26/00 and were calculated using the following equations:

$$0.016 \text{ lb of CO/hr} \times 24 \text{ hrs/day} = 0.38 \text{ lbs of CO/day.}$$

$$0.016 \text{ lb of CO/hr} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.07 \text{ TPY of CO.}$$
 - e. Emission Limitations:
Organic compound (OC) emissions shall not exceed 0.77 lb/day and 0.14 TPY.
 - Applicable Compliance Method:
The emission limitations are based on stack test information submitted by the permittee in the PTI 14-05078 submitted on 12/26/00 and were calculated using the following equations:

$$0.032 \text{ lb of OC/hr} \times 24 \text{ hrs/day} = 0.77 \text{ lb of OC/day.}$$

$$0.032 \text{ lb of OC/hr} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.14 \text{ TPY of OC.}$$
 - f. Emission Limitation:
Sulfur dioxide (SO2) emissions shall not exceed 0.38 lb/day and 0.07 TPY.
 - Applicable Compliance Method:
The emission limitations are based on stack test information submitted by the permittee in the PTI 14-05078 submitted on 12/26/00 and were calculated using the following equations:

0.016 lb of SO₂/hr x 24 hrs/day = 0.38 lbs of SO₂/day.

0.016 lb of SO₂/hr x 8760 hrs/yr x ton/2000 lbs = 0.07 TPY of SO₂.

g. Compliance with the visible particulate limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

h. Compliance with the secondary combustion chamber minimum temperature requirement shall be demonstrated by the recordkeeping requirements specified in sections C.1 and C.2.

F. Miscellaneous Requirements

1. None