

Facility ID: 1677010304 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: 1677010304 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>
Pyrolytic Incinerator (Ace Heat Cleaning Oven Model 230-RKG) - natural gas-fired, multiple chambered, 0.5 mmBtu/hr maximum combined heat input of both primary chamber and secondary chamber burners, 3200 pounds rated batch capacity, 457 lbs/hr maximum salvageable material charging rate based on 7-hour batch cycle, burning paint build-up on Type 6 waste	OAC rule 3745-31-05 (PTI 16-1184)	0.023 lb/hr particulate matter 0.054 lb/hr nitrogen oxides 0.004 lb/hr sulfur oxides 0.100 lb/hr carbon monoxide 0.034 lb/hr hydrocarbons
	OAC rule 3745-17-07(A)	20% opacity from any stack, as a 6-minute average, except as provided by rule
	OAC rule 3745-17-09	0.10 pound of particulates/100 pounds of salvageable material charged

2. Additional Terms and Conditions

- (a) The above hourly mass emission limitations (regulated under OAC rule 3745-31-05) for particulate matter, nitrogen oxides, sulfur oxides, carbon monoxide, and hydrocarbons are based upon the potential to emit of this emissions unit. Therefore, no recordkeeping, reporting, nor emissions calculations are required with these limitations.
The permittee shall properly adjust, operate, and maintain the emissions unit covered under this permit in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

B. Operational Restrictions

1. This emissions unit shall only be fired with natural gas.
2. The permittee shall not process parts which may emit vapors of toxic metals such as lead or mercury.
3. The permittee shall not process parts or materials containing coatings or plastics which contain halogens such as chloride, flourine, or bromine.
4. This emissions unit shall be used to process organic compounds containing only carbon, hydrogen, and oxygen.
5. Batch incinerators (fully loaded while cold and never opened until the burn cycle is complete) shall incorporate a lockout system, which will prevent the ignition of waste until the exhaust gas temperature of the secondary combustion chamber reaches 1400 degrees Fahrenheit.
6. The secondary combustion chamber shall be maintained at a minimum exhaust gas temperature of 1400 degrees Fahrenheit until the wastes are completely combusted and the burn-down cycle is complete.

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 temperature of the exhaust gases from the secondary combustion chamber 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.

2. The permittee shall collect and record the following information for each day for the emissions unit:
 - a. A log of the downtime for the temperature monitoring and/or recording equipment, when the associated emissions unit was in operation; and
 - b. All periods of time during which the temperature of the exhaust gases from the incinerator, when the emissions unit was in operation, was below the minimum secondary combustion chamber exhaust gas temperature of 1400 degrees Fahrenheit as specified above.
- D. **Reporting Requirements**
 1. The permittee shall submit temperature deviation (excursion) reports that identify all periods of time (except momentary excursions) during which the temperature of the exhaust gases from the secondary combustion chamber does not comply with the temperature limitation specified above.
 2. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 3 of this permit.
- 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:
0.023 lb/hr particulate matter

Applicable Compliance Method:
Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.046 pound of particulate matter per million Btu of heat input [application data] by 0.5 million Btu of heat input per hour [maximum rated heat input].

Emission Limitation:
0.054 lb/hr nitrogen oxides

Applicable Compliance Method:
Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.108 pound of nitrogen oxides per million Btu of heat input [application data] by 0.5 million Btu of heat input per hour [maximum rated heat input].

Emission Limitation:
0.004 lb/hr sulfur oxides

Applicable Compliance Method:
Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.008 pound of sulfur oxides per million Btu of heat input [application data] by 0.5 million Btu of heat input per hour [maximum rated heat input].

Emission Limitation:
0.100 lb/hr carbon monoxide

Applicable Compliance Method:
Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.2 pound of carbon monoxide per million Btu of heat input [application data] by 0.5 million Btu of heat input per hour [maximum rated heat input].

Emission Limitation:
0.034 lb/hr hydrocarbons

Applicable Compliance Method:
Compliance shall be demonstrated based upon the emissions unit's potential to emit:

Multiply 0.068 pound of hydrocarbons per million Btu of heat input [application data] by 0.5 million Btu of heat input per hour [maximum rated heat input].

Emission Limitation:
0.10 pound of particulates/100 pounds of salvageable material charged

Applicable Compliance Method:
If necessary, the permittee may be required to demonstrate compliance of the above limitation by testing in accordance with USEPA Method 5, 40 CFR Part 60, Appendix A.

Emission Limitation:
20% opacity from any stack, as a 6-minute average

Applicable Compliance Method:
Compliance with the visible emissions limitation in A.1. shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A Method 9, if required, pursuant to OAC 3745-17-03(B)(4). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04 (A).
- F. **Miscellaneous Requirements**
 1. None