

Facility ID: 1677130050 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: 1677130050 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>
Multiple Chamber Incinerator-Metals Reclamation Furnace	PTI 16-690	See A.2.a and A.2.b below.
	OAC 3745-17-07	20% opacity, as a 6-minute average, except as provided by rule
	OAC 3745-17-09	

**2. Additional Terms and Conditions**

- (a) The permittee of this emissions unit shall not cause or permit the particulate emissions to exceed the more stringent of 0.04 grain per DSCF at 12% carbon dioxide or 0.1 pound of particulate matter per 100 pounds charged.  
The permittee of this emissions unit shall not cause or permit the PCB emissions to exceed 0.00005 pound per hour.

**B. Operational Restrictions**

1. The incinerator afterburner shall be operated in such a manner as to maintain a temperature of 2200 degrees Fahrenheit (plus or minus 180 degrees Fahrenheit) with a two-second residence time and a minimum of three percent excess oxygen in the stack gas.
2. This permit will allow the incineration of, and reclamation of metals from decommissioned transformers and other electrical equipment NOT REGULATED under CFR part 761, "Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions." This permit does not allow the incineration of polyvinyl chloride (PVC), or teflon, nor does this permit allow the incineration of any material listed under 40 CFR Part 61, "National Emission Standards for Hazardous Air Pollutants."
3. The incineration of, and reclamation of, metals from decommissioned transformers and other electrical equipment shall be limited to those transformers or other electrical equipment which contain oils with a concentration of less than 500 ppm PCBs.
4. All transformers and electrical equipment shall be drained of all free-standing liquids prior to incineration. All residuals from draining will be disposed of in accordance with 40 CFR 761. In no instance shall the above residual liquids be incinerated by N001.
5. The combustion efficiency of the incinerator shall be at least 99.9 percent, and is computed as follows:

$$\text{Combustion efficiency} = \frac{C(\text{CO}_2)}{[C(\text{CO}_2) + C(\text{CO})]} * 100$$

Where:

C(CO<sub>2</sub>) = Concentration of carbon dioxide.

C(CO) = Concentration of carbon monoxide.

**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 afterburner 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. All transformers and electrical equipment received by the permittee shall be accompanied by a bill of lading identifying the name and address of the supplier and the date the transformer or electrical equipment was received. The permittee shall maintain test results and/or documentation necessary to certify the PCB content of the oil contained in the equipment.

**D. Reporting Requirements**

1. The permittee shall submit temperature deviation (excursion) reports that identify all periods of time during which the average temperature of the exhaust gases from the afterburner does not comply with the temperature limitation specified above.

**E. Testing Requirements**

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months prior to permit renewal.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for particulate, and PCB.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1 - 5 of 40 CFR Part 60, Appendix A, Determination of Particulate Emissions From Stationary Sources, and NIOSH 5503.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
3. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test (s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
4. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

**F. Miscellaneous Requirements**

1. None