

Facility ID: 0320010032 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: 0320010032 Emissions Unit ID: N001 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
Pyrolysis natural gas-fired incinerator w/ afterburner	see section F 3745-17-09(B)	see A.2.2.a & A.2.2.c 0.10 lb of particulate matter (PM) per 100 lbs of material charged (0.50 lb PM/hr at maximum PWR)
	3745-17-07(A)(1-3)	*
	3745-17-09(C)	see A.2.2.b

2. Additional Terms and Conditions

- (a) Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average, except for six consecutive minutes in any continuous sixty-minute period during which opacity shall not exceed ten percent.
The incinerator, including all associated equipment and grounds, shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.
Exhaust gases from the incinerator shall be vented to an afterburner (secondary combustion chamber), which constitutes best available technology (BAT) for this emissions unit.

* The emissions limit based on this rule is less stringent than the PTI's limit.

B. Operational Restrictions

1. This emissions unit, a burn-off incinerator model PTR # 88, shall be operated and maintained in accordance with the manufacturer's specifications. The permittee shall not change any of the manufacturer's factory preset parameters for the incinerator, or physically modify the incinerator in any way, without first verifying, with the manufacturer, that the change(s) would not adversely affect air contaminant emissions from the unit.
2. The operating temperature of the secondary combustion chamber shall be, at a minimum, 1400 degrees Fahrenheit, excluding during normal start-up and shutdown periods.
3. The secondary combustion chamber shall allow for a minimum 1/2-second retention time at 1400 degrees Fahrenheit, excluding during normal start-up and shutdown periods.
4. The permittee shall adhere to the manufacturer's recommendations pertaining to the operation of this incinerator and shall comply with the following operational restrictions:
 - a. the permittee shall ensure that the burn-off incinerator is operated only by properly trained personnel who have read, and understand, the incinerator's operation manual;
 - b. prior to start-up of the incinerator, the permittee shall remove ash residue left inside the incinerator after the previous burn cycle;
 - c. during the automatic "water spray check" which is an integral part of the unit's start-up sequence, the operator shall walk to the front of the incinerator, look inside, and visually verify that the water spray is functional. If the water spray is not adequate or the nozzles are plugged, the permittee shall shut down the incinerator and take the appropriate steps necessary to fix the problem before restarting the unit;
 - d. the permittee shall not operate the incinerator if the built-in safeguards and interlocks (incinerator excess

temperature, afterburner excess temperature, low gas pressure switch, high gas pressure switch, and low water pressure switch) are not operating properly; and

- e. the permittee shall not process uncured paint or paint sludge, paint filters, PVC, lead, plastisols, rubber-coated material, oil, wood, grease, trash, magnesium, or any hazardous waste materials as defined in 40 CFR Part 261, Subpart D in this emissions unit. Coatings that may contain chlorine (PVC), fluorine (Teflon), or elements other than carbon, hydrogen, and oxygen are also prohibited from being burned in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain the monitoring devices associated with the incinerator's safeguards and interlock system [see B.4.d above].
2. The permittee shall maintain an operation/maintenance log for this emissions unit. The log, at minimum, shall contain the following information:
 - a. the dates the emissions unit was operated;
 - b. the number of batches processed for each date the emissions unit was operated;
 - c. the date of any malfunction of the emissions unit water spray system and/or safeguards/interlocks [see B.4.c & B.4.d above], the corrective action taken, and the date it was completed; and
 - d. the dates and description of any additional maintenance activities performed on the emissions unit.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the temperature of the secondary combustion chamber when in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple, monitor, and recorder shall be guaranteed by the manufacturer to be within +/- 1 percent of the temperature being measured or +/- 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.
4. The permittee shall keep a log or record of operating time for the monitoring equipment and the associated emissions unit.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the secondary combustion chamber temperature fell below 1400 degrees Fahrenheit, as well as the corrective action(s) taken.

E. Testing Requirements

1. Compliance Methods-

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):

Emission limitation-
0.10 lb PM/100 lbs 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-
5% opacity

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with procedures specified in USEPA Reference Method 9 (40 CFR Part 60, App. A) with the opacity values determined based on a 6-minute average.

F. Miscellaneous Requirements

1. The following terms and conditions shall supersede the air pollution control requirements contained in the permit to install (application number 03-6075) issued for this emissions unit on December 18, 1991: sections A and B.