

Facility ID: 0857041183 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: 0857041183 Emissions Unit ID: P083 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>
7.3 MMBTU/hr natural gas-fired burnout pusher furnace with thermal incinerator	OAC rule 3745-31-05 (PTI 08-1755)	0.10 lb particulate/100 lbs salvageable material charged; 10.32 TPY particulates; 5% opacity, as a six-minute average;
	OAC rule 3745-17-09(A)	5.58 TPY organic compounds; 0.02 TPY sulfur dioxide; 3.04 TPY nitrogen oxides; 0.63 TPY carbon monoxide
	OAC rule 3745-17-07(A)	same as the limit above less stringent than the opacity limit based on BAT

2. Additional Terms and Conditions

- (a) The 0.02 TPY sulfur dioxides, 3.04 TPY nitrogen oxides, and 0.63 TPY carbon monoxide limits were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1600 degrees Fahrenheit.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the particulate emissions from this emissions unit, while the emissions unit is in operation. (This continuous opacity monitor is for process monitoring purposes only and is not required to be certified by Ohio EPA.)
2. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator 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.
3. The permittee shall collect and record the following information for each day:
 - a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was less than 1600 degrees Fahrenheit.
 - b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) which document all instances where the opacity monitor referenced in section

- C.1., recorded a value greater than 5%, while the emissions unit is in operation. The report shall include the duration of each instance along with any corrective actions taken to the emissions unit to reduce the opacity value to 5% or below.
2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.
3. The deviation (excursion) reports shall be submitted in accordance with paragraph 3 of the General Terms and Conditions.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
- Emissions Limitation -
0.10 lb particulate/100 lbs salvageable material charged
- Applicable Compliance Method -
Compliance was demonstrated during an October 24, 1989 stack test, with an average hourly emission rate of 0.043 lb/100 lbs salvageable material charged. If again required, compliance with this mass emission limitation shall be based on stack testing per OAC rule 3745-17-03(B)(8).
- Emissions Limitation -
10.32 TPY particulates
- Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum rated capacity of the emissions unit (2350 lbs of material charged/hour) by the average lb/100 lbs salvageable material charged from the stack test performed on October 24, 1989 (0.043 lb particulate/100 lbs material charged) and the maximum operating schedule of 8760 hours/year, divided by 2,000 pounds per ton.
- Emissions Limitation -
5.578 TPY organic compounds
- Applicable Compliance Method -
Compliance shall be determined by multiplying the average hourly wax loading into the pusher furnace (50 lbs wax/hour per application) by the organic compound content of the wax (0.35 lb organic compound/lb wax) and a thermal incinerator control efficiency of 93% (1 - 0.93). This product is then multiplied by the maximum operating schedule of 8760 hours/year and divided by 2,000 pounds per ton.
- Emissions Limitation -
0.018 TPY SO₂
- Applicable Compliance Method -
The 0.018 TPY limitation was developed by multiplying the maximum capacity of the pusher furnace (0.0069 MMCF/hour) by the AP-42 emission factor for natural gas combustion (0.6 lbs sulfur dioxide/MMCF) and the maximum operating schedule of 8760 hours/year, divided by 2,000 pounds per ton.
- Emissions Limitation -
3.04 TPY NO_x
- Applicable Compliance Method -
The 3.04 TPY limitation was developed by multiplying the maximum capacity of the pusher furnace (0.0069 MMCF/hour) by the AP-42 emission factor for natural gas combustion (100 lbs nitrogen oxides/MMCF) and the maximum operating schedule of 8760 hours/year, divided by 2,000 pounds per ton.
- Emissions Limitation -
0.63 TPY CO
- Applicable Compliance Method -
The 0.63 TPY limitation was developed by multiplying the maximum capacity of the pusher furnace (0.0069 MMCF/hour) by the AP-42 emission factor for natural gas combustion (21 lbs carbon monoxide/MMCF) and the maximum operating schedule of 8760 hours/year, divided by 2,000 pounds per ton.
- Emissions Limitation -
5% opacity
- Applicable Compliance Method -
Compliance shall be determined by visible emissions evaluations performed in accordance with OAC rule 3745-17-03(B)(3) using the methods and procedures specified in USEPA Reference Method 9.

F. Miscellaneous Requirements

1. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.