

Facility ID: 0857040217 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: 0857040217 Emissions Unit ID: P012 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>
400 lbs/hour wastewater sludge dryer with venturi scrubber control	OAC rule 3745-31-05(A)(3) PTI 08-3328	0.10 lb/hour and 0.50 TPY particulate; 5% opacity visible emissions; 0.05 lb/hour and 0.22 TPY nitrogen oxides; 0.04 lb/hour and 0.18 TPY carbon monoxide;
	40 CFR Part 61 Subpart E	0.01 lb/hour and 0.05 TPY organic compounds;
	OAC rule 3745-17-11(B)(1)	0.621 gram mercury per 24-hour period The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**
 - (a) The hourly and annual emission limitations 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 pressure drop across the scrubber shall be continuously maintained at a value of not less than 6 inches of water at all times while the emissions unit is in operation.
2. The scrubber water flow rate shall be continuously maintained at a value of not less than 2 gallons per minute at all times while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information each day:
 - a. The pressure drop across the scrubber, in inches of water.
 - b. The scrubber water flow rate, in gallons per minute.
 - c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

D. Reporting Requirements

1. In accordance with paragraph 3 of the General Terms and Conditions of this permit, the permittee shall submit

quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:

- a. The static pressure drop across the scrubber.
- b. The scrubber water flow rate.

E. Testing Requirements

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):
 - Emission Limitation -
0.10 lb/hour particulates
 - Applicable Compliance Method -
Compliance with this emission limitation was demonstrated during a July 30, 1997 performance test with results showing emissions of 0.023 lb/hour particulate. If required, additional performance testing shall be conducted in accordance with OAC rule 3745-17-03(B)(10).
 - Emission Limitation -
0.50 TPY particulates
 - Applicable Compliance Method -
The 0.50 TPY limitation was developed by multiplying the 0.10 lb/hour limitation by the maximum operating schedule of 8760 hours/year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - Emission Limitation -
5% opacity visible emissions
 - Applicable Compliance Method -
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.
 - Emission Limitation -
0.05 lb/hour nitrogen oxides
 - Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly gas burning capacity (0.00045 mmcf/hour) by the AP-42 Table 1.4-1 (7/98) emission factor for natural gas combustion of 100 lbs NOx/mmcf.
 - Emission Limitation -
0.22 TPY nitrogen oxides
 - Applicable Compliance Method -
The 0.22 TPY limitation was developed by multiplying the 0.05 lb/hour limitation by the maximum operating schedule of 8760 hours/year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - Emission Limitation -
0.04 lb/hour carbon monoxide
 - Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly gas burning capacity (0.00045 mmcf/hour) by the AP-42 Table 1.4-1 (7/98) emission factor for natural gas combustion of 84 lbs CO/mmcf.
 - Emission Limitation -
0.18 TPY carbon monoxide
 - Applicable Compliance Method -
The 0.18 TPY limitation was developed by multiplying the 0.04 lb/hour limitation by the maximum operating schedule of 8760 hours/year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - Emission Limitation -
0.01 lb/hour organic compounds
 - Applicable Compliance Method -
Compliance shall be determined by multiplying the maximum hourly gas burning capacity (0.00045 mmcf/hour) by the AP-42 Table 1.4-2 (7/98) emission factor for natural gas combustion of 11 lbs OC/mmcf.
 - Emission Limitation -
0.05 TPY organic compounds
 - Applicable Compliance Method -
The 0.05 TPY limitation was developed by multiplying the 0.01 lb/hour limitation by the maximum operating schedule of 8760 hours/year, and dividing by 2,000 pounds per ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.
 - Emission Limitation -
0.621 gram mercury per 24-hour period
 - Applicable Compliance Method -
In accordance with 40 CFR Part 61, and paragraph 61.54 of Subpart E, the permittee performed sludge sampling and analysis to determine mercury emissions as specified in USEPA Reference Method 105. The results demonstrated mercury emissions to be 0.302 gram per 24-hour period. If required, compliance shall be based on sludge sampling and analysis using the methods and procedures specified in USEPA Reference Method 105.

F. Miscellaneous Requirements

1. None