

Facility ID: 1431070914 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: 1431070914 Emissions Unit ID: P005 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>
P005 - Spray Dryer No. 7	OAC rule 3745-31-02(A)(2) (PTI 14-05539)	Volatile organic compound (VOC) emissions from the spray dryer shall not exceed 1.6 pounds per hour and 7.01 tons per year. Particulate emissions* (PE) from the spray dryer shall not exceed 0.45 pound per hour and 1.97 tons per year. * PE = PM10
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1). Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2).
	OAC rule 3745-21-07(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-02(A)(2).

2. Additional Terms and Conditions

- (a) The hourly and annual emission limitations outlined in term A.1. are based upon the emissions unit's potential to emit. Therefore, no hourly or annual records are required to demonstrate compliance with these limits. Compliance with OAC rule 3745-31-02(A)(2) shall be demonstrated by the use of a scrubber with at least a 90% control efficiency for particulate emissions and at least a 50% control efficiency for organic compound emissions.

B. Operational Restrictions

1. The scrubber water flow rate for the packed bed scrubber shall be continuously maintained at a value of not less than 40 gallons per minute at all times while the emissions unit is in operation.
2. The scrubber water for the packed bed scrubber shall be continuously maintained at an oxidation reduction potential of not less than 600 mV at all times while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor the scrubber water flow rate for the packed bed scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

- a. The scrubber water flow rate, in gallons per minute, once each day.

- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.
 2. The permittee shall properly install, operate, and maintain equipment to continuously monitor the oxidation reduction potential for the packed bed scrubber while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

The permittee shall collect and record the following information each day:

 - a. The oxidation reduction potential, in millivolts, once each day.
 - 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 deviation (excursion) reports that identify all periods of time during which the scrubber flow rate for the packed bed scrubber was not maintained at the required levels outlined in term B.1.
 2. The permittee shall submit deviation (excursion) reports that identify all periods of time days during which the oxidation reduction potential for the packed bed scrubber was not maintained at the required levels outlined in term B.2.
 3. The deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
- E. **Testing Requirements**
 1. Compliance with the emission limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:

0.45 lb/hr PE/PM10
1.97 TPY PE/PM10

Applicable Compliance Method:

Compliance with the emission limitation shall be determined by multiplying the production rate (lb/hr) by the loss factor (0.05) then by the control efficiency of the scrubber (1-0.90). Annual emissions shall be determined by multiplying the hourly emissions by 8760 hours per year and dividing by 2000 lbs/ton. The emissions factors were provided in PTI application 14-05539 submitted February 12, 2004.
 - b. Emission Limitation:

1.6 lbs/hr VOC
7.01 TPY VOC

Applicable Compliance Method:

Compliance with the hourly emission limitation shall be determined by multiplying the emission rate, 3.20 lbs/hr, by the control efficiency of the wet scrubber (1-0.50). Annual emissions shall be determined by multiplying the hourly emissions by 8760 hours per year and dividing by 2000 lbs/ton. The emissions rates were provided in PTI application 14-05539 submitted February 12, 2004.
 2. Compliance with the visible particulate emission limitation established in OAC rule 3745-17-07(A)(1) stated in term A.1 shall be determined by the methods specified in 40 CFR Part 60 Appendix A, Method 9.
- F. **Miscellaneous Requirements**
 1. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.