

Facility ID: 1431111828 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: 143111828 Emissions Unit ID: P010 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>
P010-spray dryer with venturi scrubber and fabric filter	OAC rule 3745-31-05(A)(3) (PTI 14-03787)	Particulate Emissions (PE) shall not exceed 1.63 lbs/hr and 7.12 TPY.
	OAC rule 3745-17-07(A)	Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 0.08 lbs/hr and 0.36 TPY.
	OAC rule 3745-17-11(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. 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 permittee shall vent all particulate emissions from the spray dryer to a venturi scrubber during the production of hydrotropes.
The permittee shall vent all particulate emissions from the spray dryer to a fabric filter during the production of surfactants.

B. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 15 inches of water at all times while the emissions unit is in operation.

The scrubber water flow rate shall be continuously maintained at a value of not less than 60 gallons per minute at all times while the emissions unit is in operation.
2. The pressure drop across the baghouse shall be maintained within the range of 0.5 to 8 inches of water 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.

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

shall record the pressure drop across the baghouse on a once per shift basis.

D. Reporting Requirements

1. The permittee shall submit 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.
2. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
3. The permittee shall also submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.

2. Emission Limitation:

1.63 lbs PM/hr, 7.12 tons PM/yr; 0.08 lbs PM-10/hr, 0.36 tons PM-10/yr

Applicable Compliance Method:

Emissions shall be calculated and compliance determined using the following equations:

$$\text{lbs PM/hr} = (A) \times (1-C)$$

$$\text{tons PM/yr} = (A) \times (1-C) \times (D) \times 0.0005$$

$$\text{lbs PM-10/yr} = (B) \times (1-C)$$

$$\text{tons PM-10/yr} = (B) \times (1-C) \times (D) \times 0.0005$$

where,

A = PM emission factor of 5% of maximum hourly production

B = PM-10 emission factor of 5% of maximum hourly production when controlled by baghouse, 0.25% when controlled by scrubber

C = control efficiency, expressed as a decimal (0.95 when controlled by scrubber, 0.999 when controlled by baghouse)

D = total annual hours operated

If testing is required to determine compliance with the with the PM emission limitations, then testing shall be conducted using the following method: Methods 1-5 of 40 CFR Part 60, Appendix A.

If testing is required to determine compliance with the with the PM-10 emission limitations, then testing shall be conducted using the following method: Method 201 of 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

1. None