

Facility ID: 0664980013 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: 0664980013 Emissions Unit ID: P901 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>
Rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper	NSPS (40 CFR Part 60, Subpart I) PTI # 13-2001	0.04 grain per dry standard cubic foot of exhaust gases (particulate matter)
	OAC rule 3745-31-05 (PTI # 13-2001)	The visible emissions shall be less than or equal to 5 percent opacity from the stack.
	OAC rule 3745-17-08 OAC rule 3745-17-07 (A)	There shall be no visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.
	OAC rule 3745-17-11	The visible emissions from the baghouse stack shall be less than or equal to 20 percent (20%) opacity, as a six (6) minute average, except as provided by rule. This visible emission limitation is less stringent than the visible emission limitation specified pursuant to OAC rule 3745-31-05.
Aggregate storage bins and cold aggregate elevator	OAC rule 3745-17-08 OAC rule 3745-17-07 (B)	60 pounds per hour of particulate emissions from the baghouse stack. This emission limitation is less stringent than the particulate emission limitation from the NSPS.
	OAC rule 3745-17-08	The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area. These visible emissions of fugitive dust shall be less than or equal to 20 percent opacity, as a 3-minute average.
	OAC rule 3745-17-08	The aggregate loaded into the storage bins shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.

**2. Additional Terms and Conditions**

- (a) In accordance with OAC rule 3745-35-07, the following emission limitations also shall apply:
  - i. NOx emissions shall be limited to 0.054 pound of NOx per ton of asphalt produced.
  - ii. NOx emissions shall be limited to 13.46 tons per year.
  - iii. SO2 emissions shall be limited to 0.00023 pound of SO2 per ton of asphalt produced.
  - iv. SO2 emissions shall be limited to 0.06 ton per year.

**B. Operational Restrictions**

1. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 3 or greater

than 7 inches of water shall be maintained at all times.

2. The maximum annual production rate for this emissions unit shall not exceed 500,000 tons, based upon a rolling, 12-month summation of the production rates.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the production levels specified in the following table:

Month Maximum Allowable Production (tons)

January 1,000  
 February 1,000  
 March 5,000  
 April 25,000  
 May 35,000  
 June 55,000  
 July 80,000  
 August 80,000  
 September 80,000  
 October 70,000  
 November 45,000  
 December 23,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

3. The permittee shall employ only natural gas or electricity to heat the asphalt heater and asphalt dryer.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter.
2. The permittee shall check the pressure drop once each day and maintain daily records of the pressure drop readings.
3. The permittee shall maintain monthly records of the following information:  
 The production rate for each month.  
 Beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the production rates.
- D. Reporting Requirements**
1. The permittee shall submit semi-annual reports which identify all exceedances of the above-mentioned allowable pressure drop range. These semi-annual written reports shall be submitted by January 31 and July 31 of each year for the previous six (6) calendar months.
2. The permittee shall submit semi-annual deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable monthly production levels.
3. The permittee shall submit annual reports which identify the facility's total annual asphalt production and the total annual emissions of NOx and SO2 for the preceding calendar year. These reports shall be submitted by January 31 of each year.
- E. Testing Requirements**
1. Applicable Compliance Method - Particulate Matter
- Within six months prior to the expiration of this permit and at the beginning of the next asphalt season following the issuance of this permit, the permittee shall conduct, or have conducted, an emission test for this emissions unit in order to demonstrate compliance with the allowable mass emission rate for particulate matter. The particulate matter emissions test shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03. The emissions test shall be conducted with a production rate at or near maximum capacity ( 250 tons of asphalt/hr ) using virgin materials.
- Not later than thirty days prior to the proposed test date, this facility shall submit an "Intent to Test" notification to the Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time and date of the test, and the person who will be conducting the test. Failure to submit such a notification for review and approval prior to the test may result in refusal to accept the results of the emission test.
- Personnel from the Ohio EPA District Office or local air agency shall be permitted to witness the test, examine the testing equipment and acquire data and information regarding the source operating parameters.
- A comprehensive written report on the results of the emission test shall be submitted within thirty days following completion of the test.
2. Applicable Compliance Method - NOx
- To demonstrate compliance with the allowable mass emission rate for NOx, the emissions from the batch plant and asphalt heater shall be calculated using the emission factors from AP-42, Section 1.4, Table 1.4-2.
- The overall or total NOx emissions from these emissions units shall not be greater than the allowable NOx emission rate of 0.054 pound per ton (of asphalt produced), as calculated by the permittee. The permittee shall multiply the allowable NOx emission rate of 0.054 pound per ton by the actual annual production rate (in tons), and divide by 2000.

3. Applicable Compliance Method - SO<sub>2</sub>

To demonstrate compliance with the allowable mass emission rate for SO<sub>2</sub>, the emissions from the batch plant and asphalt heater shall be calculated using the emission factors from AP-42, Section 1.4, Table 1.4-2.

The overall or total SO<sub>2</sub> emissions from these emissions units shall not be greater than the allowable SO<sub>2</sub> emission rate of 0.00023 pound per ton (of asphalt produced), as calculated by the permittee. The permittee shall multiply the allowable SO<sub>2</sub> emission rate of 0.00023 pound per ton by the actual annual production rate (in tons), and divide by 2000.

4. Applicable Compliance Method - Volatile organic compound (VOC)

To determine the mass emission rate for VOC, the permittee shall conduct, or have conducted, an emission test for this emissions unit at the beginning of the next asphalt season following the issuance of this permit. The volatile organic compound emissions test shall be conducted in accordance with the test methods and procedures specified in Method 25 or 25A of 40 CFR Part 60, Appendix A. The emissions test shall be conducted with a production rate at or near maximum capacity ( 250 tons of asphalt/hr ).

5. USEPA Method 9 shall be used to determine compliance with the 5 % (stack) and 20 % (fugitive) opacity limitations.

6. Compliance with the no visible emission limitations shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

**F. Miscellaneous Requirements**

1. Sections A through F are federally enforceable requirements, pursuant to OAC rule 3745-35-07.