

Facility ID: 0121000204 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: 0121000204 Emissions Unit ID: P003 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>
200 tons per hour rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper	NSPS (40 CFR Part 60, Subpart I) OAC rule 3745-17-07(A) OAC rule 3745-31-05 (PTI 01-3913)	Emissions of particulate matter shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases. Visible emissions shall not exceed 20 percent opacity, as a 6-minute average, from the stack, except as provided by rule. There shall be no visible emissions of fugitive dust from the enclosure for the hot aggregate elevator, vibrating screens, and weigh hopper. 0.195 lb SO2/ton asphalt produced 12 lbs PM/hr
Aggregate storage bins and cold aggregate elevator	OAC rule 3745-17-11 OAC rule 3745-31-05 (PTI 01-3913) OAC rule 3745-17-07(B)	See A.2.a. 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. 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. Visible emissions of fugitive dust from the elevator loading area shall not exceed 20 percent opacity, as a 3-minute average.

2. **Additional Terms and Conditions**
 - (a) The particulate emission limit specified by this rule is less stringent than the NSPS limitation specified above.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 3.0 to 8.0 inches of water while the emissions unit is in operation.
2. The permittee shall burn only the following fuels in this emissions unit:
 - a. natural gas; or
 - b. #2 fuel oil with a sulfur content equal to or less than 0.5%.
3. The maximum annual #2 fuel oil usage for this emissions unit shall not exceed 980,000 gallons per calendar year.

C. Monitoring and/or Record Keeping Requirements

1. 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 installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendation, instruction and operating manual(s). The

permittee shall record the pressure drop across the baghouse on a daily basis.

2. The permittee shall maintain monthly records of the number of gallons of #2 fuel oil burned in this emissions unit.
3. The permittee shall maintain records of the number of gallons of #2 fuel oil burned in this emissions unit during the calendar year (i.e., the summation of the individual monthly gallons of #2 fuel oil burned during the calendar year).
4. For each day during which the permittee burns a fuel other than natural gas or #2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
5. Sampling and analysis of each shipment of #2 fuel oil which is received for burning in this emissions unit shall be performed for sulfur content (%) and heat content (Btu/gallon) in accordance with 40 CFR, Part 60, "Appendix A", Method 19, the appropriate ASTM methods, or equivalent methods as approved by the Ohio EPA, Central District Office. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers may be acceptable. The results of these analyses shall be maintained in the facility's files for a period of not less than five (5) years.

D. Reporting Requirements

1. 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.

The reports shall be submitted on:

- a. July 15 and shall cover the period from when operation commenced for the calendar year until June 30; and
- b. November 15 and shall cover the period from July 1 until October 31.

If no daily pressure drops are out of range during a given period, the permittee shall submit a report which states that no daily pressure drops were out of range during that period. (These reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or #2 fuel oil was burned in this emissions unit.
3. The permittee shall submit deviation (excursion) reports to the Ohio EPA, Central District Office in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit annual reports of the number of gallons of #2 fuel oil burned in this emissions unit during the previous calendar year (i.e., the summation of the individual monthly gallons of diesel fuel burned during the previous calendar year).

Each annual report shall also include a copy of the fuel analyses performed by fuel oil suppliers for each shipment of oil which is received for burning in this emissions unit. The fuel oil suppliers analyses shall include the sulfur content (percent, %) and heat content (Btu/gallon) of each shipment of fuel oil.

These reports shall be submitted by February 15 of each year and shall cover the fuel oil shipments received during the previous calendar year.

E. Testing Requirements

1. Within 2 1/2 years after issuance and within 6 months prior to the expiration of this permit, the permittee shall conduct, or have conducted, an emission test for this emissions unit in order to demonstrate compliance with the following allowable mass emission rate(s) for particulates:

0.04 grain per dry standard cubic foot of exhaust gases; and
12 lbs PM/hr

The test shall be conducted in accordance with the test methods and procedures specified in OAC rule 3745-17-03 while the source is operating at or near maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the source operating parameters, the time(s) and date(s) of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the field office's refusal to accept the results of the emission test.

Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment and acquire data and information regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emission test shall be submitted within 30 days following completion of the test.

2. Compliance with the sulfur dioxide emission limit shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 8. No testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

The SO₂ limit of 0.195 lb SO₂/ton asphalt produced was established for PTI purposes based on the maximum rated heat input capacity of the burner for this emissions unit (75 MMBtu/hr), the heat content for #2 fuel oil (138,000 Btu/gallon), and the maximum rated asphalt production rate (200 tons per hour) as follows:

$$(75 \text{ MMBtu/hr}) / (138,000 \text{ Btu/gallon}) = 543.5 \text{ gals/hr}$$

$$543.5 \text{ gals/hr} \times 142\text{S} = 543.5 \text{ gals/hr} \times [(142) \times (0.5) \text{ lb SO}_2/1000 \text{ gallons}] = 38.6 \text{ lbs SO}_2/\text{hr}$$

$$(38.6 \text{ lbs SO}_2/\text{hr}) / (200 \text{ tons asphalt produced/hr}) = 0.195 \text{ lb SO}_2/\text{ton asphalt produced}$$

*AP-42 equation for boilers less than 100 MMBtu/hr (AP-42 Chapter 1, Table 1.3-1, Supplement E (9/98))
burning #2 fuel oil with a S content of 0.5%

3. Compliance with the no visible emissions limitation for fugitive dust shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 22.
4. Compliance with the opacity limitations for stack and fugitive emissions shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

F. **Miscellaneous Requirements**

1. None