

Facility ID: 1409080017 Issuance type: Final State Permit To Operate

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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: 1409080017 Emissions Unit ID: P902 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>
300 tons per hour (TPH) drum mix asphalt plant with fabric filter	OAC rule 3745-31-05(A)(3) (PTI 14-04871)	9.1 lbs of particulate emissions (PE)/hr from the stack of the fabric filter
		3.6 lbs of particulate matter less than or equal to 10 microns in diameter (PM10 emissions)/hr from the stack of the fabric filter
		6 lbs of particulate matter (PM) emissions of fugitive dust/hr
		6 lbs of PM10 emissions of fugitive dust/hr
		5.5 tons per year (TPY) of PM emissions of fugitive dust
		5.5 TPY of PM10 emissions of fugitive dust
		102 lbs of carbon monoxide (CO) emissions/hr from the stack of the fabric filter
		9 lbs of nitrogen oxides (NOx) emissions/hr, 8.3 TPY* of NOx emissions; from the stack of the fabric filter
		1.5 lbs of sulfur dioxide (SO2) emissions/hr, 1.4 TPY* of SO2 emissions; from the stack of the fabric filter
		15.3 lbs of organic compound (OC) emissions/hr, 14 TPY* of OC emissions; from the stack of the fabric filter
		There shall be no visible particulate emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper.
		See A.2.
	OAC rule 3745-31-05(D) (PTI 14-04871)	8.3 TPY* of PE from the stack of the fabric filter
		3.3 TPY* of PM10 emissions from the stack of the fabric filter
		93.5 TPY* of CO emissions from the stack of the fabric filter
		See B.2.

40 CFR, Part 60, Subpart I	<p>* The TPY emission limitations are based on a rolling, 12-month summation.</p> <p>0.04 grain of PE per dry standard cubic foot (gr/dscf) of exhaust gases from the stack of the fabric filter</p> <p>The visible particulate emission limitation established by this regulation is less stringent than the limitation established by OAC rule 3745-31-05(A)(3).</p>
OAC rule 3745-17-07(A)(1)	<p>The visible particulate emission limitations established by this rule are less stringent than the limitation established by OAC rule 3745-31-05(A)(3).</p>
OAC rule 3745-17-08(B)	<p>reasonably available control measures (consisting of watering and inherent moisture content) to minimize or eliminate visible particulate emissions of fugitive dust from unloading to storage bins and from feeder loading of the cold aggregate elevator</p>
OAC rule 3745-17-07(B)(1)	<p>There shall be no visible particulate emissions of fugitive dust from this emissions unit exceeding 20% opacity, as a 3-minute average.</p>

**2. Additional Terms and Conditions**

- (a) Compliance with OAC rule 3745-31-05(A)(3) shall be determined by compliance with the emission limitations and production limitations in this permit and by the use of a fabric filter for the control of PE. Visible particulate emissions from any stack associated with emissions unit P902 shall be less than or equal to 10% opacity, as a six-minute average. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR, Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR, Part 60 are also federally enforceable.

**B. Operational Restrictions**

- 1. The pressure drop across the fabric filter shall be maintained within a range of 2 inches of water column to 7 inches of water column while the emissions unit is in operation.
- 2. The maximum annual asphalt production rate for this emissions unit shall not exceed 550,000 tons per year 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(s)	Maximum Allowable Cumulative Production (tons)
1	150,000
1-2	260,000
1-3	320,833
1-4	320,833
1-5	320,833
1-6	320,833
1-7	320,833
1-8	366,667
1-9	412,500
1-10	458,333
1-11	504,167
1-12	550,000

After the first 12 calendar months of operation following 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 maximum hourly asphalt production rate for this emissions unit shall not exceed 250 tons per hour, unless the permittee demonstrates, to the satisfaction of the Hamilton County Department of Environmental Services, compliance with the particulate emission limitations in this permit by stack testing at a higher production rate. In such case, the maximum hourly asphalt production rate for this emissions unit shall be the average rate of production during such stack test.

**C. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter while the emissions unit is in operation. The monitoring equipment shall be installed, 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 fabric filter on a daily basis.
- 2. The permittee shall maintain hourly production records of the amount of asphalt produced by the emissions unit, in tons.
- 3. The permittee shall maintain the following monthly records:
  - a. the total monthly asphalt production for this emissions unit, in tons;
  - b. during the first 12 calendar months of operation following the issuance of this permit, the cumulative production rate for each calendar month, in tons; and
  - c. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-

month summation of the production rates, in tons.

4. The permittee shall collect and maintain the following monthly records:
  - a. the total emissions of NO<sub>x</sub>, SO<sub>2</sub>, OC, CO, PE and PM<sub>10</sub> calculated using the AP-42 emission factors identified in term E.2 and the asphalt production, in tons, recorded pursuant to term C.3.a, in tons; and
  - b. the rolling, 12-month summation of the monthly data in C.4.a for NO<sub>x</sub>, SO<sub>2</sub>, OC, CO, PE and PM<sub>10</sub>.

**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 fabric filter did not comply with the allowable range specified in term B.1.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative production levels.
3. The permittee shall submit annual reports that specify the total NO<sub>x</sub>, SO<sub>2</sub>, OC, CO, PE and PM<sub>10</sub> emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
4. The permittee shall submit deviation (excursion) reports that identify all exceedances of the 250 TPH production limitation.
5. The deviation 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 visible particulate emission limitations in terms A.1 and A.2 shall be determined by using the following methods:
 

no visible particulate emissions from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper: Method 22 of 40 CFR, Part 60, Appendix A

10% opacity, as a 6-minute average, for stack emissions from the fabric filter: Method 9, 40 CFR, Part 60, Appendix A

20% opacity, as a 3-minute average, for fugitive emissions: Method 9 of 40 CFR, Part 60, Appendix A and OAC rule 3745-17-03(B)(3)
2. Compliance with the hourly and annual PM and PM<sub>10</sub> emission limitations for fugitive dust specified in term A.1 shall be determined by multiplying the maximum production rate, in tons per hour, and the annual production rate, in tons per year, of this emissions unit, using the records collected pursuant to terms C.2 and C.3, by the following emission factors from Reasonably Available Control Measures for Fugitive Dust Sources, August 1983, and by one minus the fractional control efficiency for watering and inherent moisture (0.90) and dividing by 2,000 lbs/ton for annual emissions:
 

PE = PM<sub>10</sub> = 0.1 lb/ton of asphalt produced (from unloading coarse and fine aggregate to storage bins and feeders + 0.1 lb/ton of asphalt produced (from the cold aggregate elevator) = 0.2 lb/ton of asphalt produced
3. Compliance with the hourly and annual NO<sub>x</sub>, SO<sub>2</sub>, OC, CO, PE and PM<sub>10</sub> emission limitations for the fabric filter stack shall be determined by multiplying the maximum production rate, in tons per hour, and the annual production rate, in tons per year, of this emissions unit, using the records collected pursuant to terms C.2 or C.3, by the following emission factors from AP-42, 1/95, Tables 11.1-2, 11.1-5, 11.1-7 and 11.1-8), and dividing by 2,000 lbs/ton for annual emissions:
 

CO emissions = 0.34 lb/ton produced  
 NO<sub>x</sub> emissions = 0.03 lb/ton produced  
 SO<sub>2</sub> emissions = 0.005 lb/ton produced  
 OC emissions = 0.051 lb/ton produced  
 PE = 0.040 lb/ton produced  
 PM<sub>10</sub> = 0.016 lb/ton produced
4. Compliance with the annual asphalt production limit in term B.2 shall be determined by the record keeping in term C.3.
5. Compliance with the fabric filter pressure drop limitation in term B.1 shall be determined by the record keeping in term C.1.
6. Compliance with the hourly asphalt production limitation in term B.3 shall be determined by the record keeping requirement in term C.2.
7. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted on an annual basis (by October 31 of each year).
  - b. The emission testing shall be conducted to demonstrate compliance with the PE limitations of 9.1 lbs/hr and 0.04 gr/dscf.
  - c. The following test method shall be employed to demonstrate compliance with the PE limitations: Method 5 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Hamilton County Department of Environmental Services.
  - d. The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services.

- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit 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 Hamilton County Department of Environmental Services' refusal to accept the results of the emission test.
- f. Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the test and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

**F. Miscellaneous Requirements**

- 1. The following terms and conditions of this permit are federally enforceable:
  - terms A.2.c, B.1, B.2, B.3, C.1, C.2, D.1, D.2, D.5, E.1, E.2, E.4 and E.5.
- 2. The start-up of this emissions unit shall be preceded by the shutdown of emissions unit P901 (225 TPH Asphalt Batch Plant w/Baghouse).