

Facility ID: 1667050012 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: 1667050012 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 all controlled with a cyclone scrubber | OAC rule 3745-17-07 | See A.2.a below. |
| | OAC rule 3745-17-08 | See A.2.b below. |
| | OAC rule 3745-17-11 | See A.2.c below. |
| | OAC rule 3745-35-07 | See A.2.d and A.2.e below. |
| Aggregate storage bins and cold aggregate elevator | OAC rule 3745-17-07 | See second sentences of A.2.f and A.2.g below. |
| | OAC rule 3745-17-08 | See first sentences of A.2.f and A.2.g below. |

2. Additional Terms and Conditions

- (a) The permittee shall not allow emissions from the cyclone scrubber stack to exceed 20% opacity as a 6-minute average, except as provided by rule. There shall be no visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper. The permittee shall limit particulate emissions from this emissions unit to no more than 52 pounds per hour.

The hourly particulate emission limitation is based upon Figure II of OAC rule 3745-17-11 (using the maximum uncontrolled mass rate of emission of 6400 pounds per hour of particulates, which equals the AP-42 (Table 11.1-2, 1/95 edition) emission factor of 32 pounds of particulates per ton of asphalt production times the maximum asphalt production capacity of 200 tons per hour). The limitation from Figure II is more stringent than the limitation based upon Table I of OAC rule 3745-17-11.

The permittee shall limit particulate emissions from this emissions unit to no more than 0.26 pound per ton of asphalt production.

The 0.26 pound of particulates per ton of asphalt production equals the maximum allowable hourly particulate emission rate of 52 pounds per hour divided by the maximum asphalt production capacity of 200 tons per hour.

Annual emissions of particulates from this emissions unit shall not exceed 49 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

The annual particulate emission limitation is based upon the product of the allowable emission rate of 0.26 pound of particulates per ton of asphalt production times the maximum allowable annual asphalt production rate of 377,600 tons per year, and divided by 2000 pounds per ton.

The permittee shall limit emissions of carbon monoxide from this emissions unit to no more than 0.34 pound per ton of asphalt production.

Annual emissions of carbon monoxide from this emissions unit shall not exceed 64 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

The annual carbon monoxide emission limitation is based upon the product of the allowable emission rate of 0.34 pound of carbon monoxide per ton of asphalt production times the maximum allowable annual asphalt production rate of 377,600 tons per year, and divided by 2000 pounds per ton.

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 aggregate storage bins. The visible emissions of fugitive dust from this operation shall not exceed 20 percent opacity as a 3-minute average.

The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer. The visible emissions of fugitive dust from this operation shall not exceed 20 percent opacity as a 3-minute average.

B. Operational Restrictions

1. The permittee shall employ only natural gas as fuel in this emissions unit.
2. All applicable plant operations shall be vented to the cyclone scrubber serving this emissions unit.
3. The permittee shall maintain the water flow rate, water pressure, and static gas pressure drop for the scrubber at the following levels while the emissions unit is in operation:
 - a. water flow rate of not less than 150 gallons per minute;
 - b. water pressure of not less than 90 psig; and
 - c. static gas pressure drop of not less than 1.25 inches of water.
4. The maximum annual production rate for this emissions unit shall not exceed 377,600 tons based upon a rolling, 12-month summation of the monthly asphalt production rates.
5. This emissions unit has not been approved for the use of recycled asphalt products.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each calendar month:
 - a. the asphalt production rate, in tons/month; and
 - b. the rolling, 12-month summation of the monthly asphalt production rates, in tons/year.
2. The permittee shall properly operate and maintain equipment to monitor the water flow rate (gallons/minute), water pressure (psig), and static gas pressure drop (inches of water) for the scrubber. The water flow rate, water pressure, and static gas pressure drop shall be recorded daily while the emissions unit is in operation.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month asphalt production rate limitation.
2. The permittee shall submit deviation (excursion) reports which identify (by date, duration, and measurement values) all violations of the water flow rate, water pressure, and static gas pressure drop limitations.
3. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Terms and Conditions, Section 3.

E. Testing Requirements

1. 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 to demonstrate compliance with the allowable mass emission rates for particulates and carbon monoxide. The emission testing shall also be conducted to determine the mass emission rate for volatile organic compounds (VOC's).
 - b. The emission testing shall be conducted within 6 months following the issuance of this permit, assuming that the FESOP is final issued during the 1998 asphalt season. If the FESOP is not final issued during the 1998 asphalt season, then the emission testing shall be performed during the next asphalt season within 6 months following the issuance of the permit. Also, the compliance emission testing for particulates and carbon monoxide shall be performed within 6 months prior to permit renewal. VOC mass emission tests need only to be done within 6 months following the issuance of this permit.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for particulates and carbon monoxide:

Methods 1-5 of 40 CFR Part 60, Appendix A (for particulates); and
Method 10 of 40 CFR Part 60, Appendix A (for carbon monoxide).

VOC mass emission tests shall be performed using Method 25 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - e. The testing shall be performed using only "virgin aggregate".
Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit/control device operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit/control device and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

2. Compliance with the emission limitations in Section A.2 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:

20% opacity as a 3-minute average

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

Emission Limitation:

no visible emissions of fugitive dust

Applicable Compliance Method:

40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(4).

Emission Limitation:

52 lbs/hr particulates

Applicable Compliance Method:

Compliance shall be based upon stack testing per OAC rule 3745-17-03(B)(10).

Emission Limitation:

0.26 pound of particulates per ton of asphalt production.

Applicable Compliance Method:

Compliance shall be based upon stack testing per OAC rule 3745-17-03(B)(10).

Emission Limitation:

0.34 pound of carbon monoxide per ton of asphalt production.

Applicable Compliance Method:

Compliance shall be based upon stack testing in accordance with the procedures of Method 10 of 40 CFR Part 60, Appendix A.

Emission Limitation:

49 TPY particulates

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the allowable emission rate of 0.26 pound of particulates per ton of asphalt production times the actual annual asphalt production rate, based upon a rolling, 12-month summation of the monthly asphalt production rates, and dividing by 2000.

Emission Limitation:

64 TPY carbon monoxide

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the allowable emission rate of 0.34 pound of carbon monoxide per ton of asphalt production times the actual annual asphalt production rate, based upon a rolling, 12-month summation of the monthly asphalt production rates, and dividing by 2000.

F. Miscellaneous Requirements

1. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the emissions unit.
2. The permittee is hereby notified that this permit and all agency records concerning the operation of this permitted emissions unit are subject to public disclosure in accordance with OAC rule 3745-49-03.
3. The following terms and conditions are federally enforceable, pursuant to OAC rule 3745-35-07: A, B, C, D, E, and F.