

Facility ID: 0829790411 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: 0829790411 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>
320 tons/hr, Hot Mix Asphalt Batch Plant; rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper, controlled with baghouse	OAC rule 3745-31-05(A)(3) PTI 08-04457	<p>The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart I, and OAC 3745-31-05 (C) and OAC rule 3745-35-07(B).</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 87.68 lbs/hr; The nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 14.08 lbs/hr ; The sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 19.84 lbs/hr ; The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 26.24 lbs/hr</p> <p>The installation and use of adequate enclosures and sufficient draft to minimize or eliminate visible emissions of fugitive dust from the hot aggregate elevator, vibrating screens, and weigh hopper.</p> <p>The CO emissions from this emissions unit shall not exceed 54.8 tons/yr.</p> <p>The SO2 emissions from this emissions unit shall not exceed 12.40 tons/yr.</p> <p>The NOx emissions from this emissions unit shall not exceed 8.8 tons/yr.</p> <p>The VOC emissions from this emissions unit shall not exceed 16.4 tons/yr.</p> <p>The PE emissions from this emissions unit shall not exceed 7.0 tons/yr PE</p> <p>*The ton/yr limitations are based upon a rolling 12-month summation.</p> <p>See additional term 2.d.</p> <p>Particulate emissions shall not exceed 0.04 grain per dry standard cubic foot of exhaust gases.</p> <p>Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, from the stack, except as provided by 40 CFR Part 60, Subpart I.</p>
	OAC rule 3745-35-07(B) and OAC rule 3745-31-05 (C) (synthetic minor to avoid PSD and Title V)	

The emission limitation specified in these rules are less stringent than the emission limitation specified in 40 CFR Part 60, Subpart I.

NSPS 40 CFR Part 60, Subpart I

<p>aggregate storage bins and cold aggregate elevator</p>	<p>OAC rule 3745-17-07(A) and 3745-17-11(B) OAC rule 3745-31-05(A)(3) PTI 08-04457</p>	<p>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.</p> <p>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.</p>
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2. **Additional Terms and Conditions**

- (a) The 87.68 lbs/hr of CO, 14.08 lbs/hr of NOx, 19.84 lbs/hr of SO2 and 26.24 lbs/hr of VOC emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
This emissions unit has been approved for the use of recycle asphalt products.
The particulate matter (PM) emission limitation specified above includes particulate matter (PM10) emissions that are less than 10 microns in diameter.
The permittee has accepted limits in production to avoid PSD and Title V for CO and Title V for the following pollutants SO2, NOx, VOC and PE.

B. **Operational Restrictions**

- 1. The maximum annual production rate for this emissions unit shall not exceed 400,000 tons, based upon a rolling 12-month summation.
- 2. The pressure drop across the baghouse shall be maintained within the range of 2 to 8 inches of water when the emissions unit is in operation.
- 3. All recycled, used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Specifications

arsenic 5 ppm, maximum
cadmium 2 ppm, maximum
chromium 10 ppm, maximum
lead 100 ppm, maximum
PCB's 50 ppm, maximum*
total halogens 4000 ppm maximum**
mercury 1 ppm, maximum
flash point 100 degrees Fahrenheit, minimum
heat content 135,000 Btu/gallon, minimum

* If the permittee is burning used oil with any quantifiable level 2ppm < 50 ppm of PCBs, then the permittee is subject to any applicable requirements found under 40 CFR part 279., subparts G and H and 40 CFR 761.20 (e).

** Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR 279.10(b)(1)(ii) and OAC rule 3745-279- 10(B)(1)(b). Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the used oil supplier has demonstrated the used oil does not contain any hazardous waste pursuant to OAC rule 3745-279-63.

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

- 1. The permittee shall maintain monthly records of the following information:
 - a. The total quantity of asphalt products produced each month; and
 - b. The rolling, 12-month summation of the monthly production rates.
- 2. The permittee shall properly, operate, and maintain equipment to monitor the pressure drop across the baghouse when 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 baghouse on a daily basis.

3. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
 - a. The date of shipment or delivery.
 - b. The quantity of used oil received.
 - c. The Btu value of the used oil, in BTU/gallon.
 - d. The flash point of the used oil in degrees F.
 - e. The arsenic content, in ppm.
 - f. The cadmium content, in ppm.
 - g. The chromium content, in ppm.
 - h. The lead content, in ppm.
 - i. The PCB content, in ppm.
 - j. The total halogen content, in ppm.
 - k. The mercury content, in ppm.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Director (the appropriate Ohio EPS District Office or local air agency) upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports to the Director (the appropriate District Office or local air agency) which identify all exceedances of the rolling, 12-month production rate limitation. The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
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. The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall notify the USEPA and the Ohio EPA (appropriate DO or LAA) if any of the used oil exceeds the used oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any used oil.

Before the permittee accepts the first shipment of any off-specification used oil from a marketer, the permittee must provide the marketer a one-time, written and signed notice certifying that:

- a. The company has notified USEPA of its used oil management activities and that the notice included the location and description of those activities; and
- b. The company will burn the used oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41(b) and OAC rule 3745-279-42.

A copy of each certification notice that the permittee sends to a marketer must be kept on file for a minimum of 5 years from the date it last received off-specification used oil from that marketer.

4. The permittee shall submit annual reports of the production rate and the total PM, OC, NOx, SO₂ and CO emissions for this emissions units. These reports shall be submitted by January 31 of each year to the Director (District Office or Local Air Agency).

E. Testing Requirements

1. Compliance Methods

Compliance with the emissions limitation(s) in section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation-
0.04 gr/dscf of exhaust gases

Applicable Compliance Method-

If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 5, of 40 CFR Part 60, Appendix A.

Emission Limitation -
7.0 tons/yr particulate

Applicable Compliance Method -

Compliance shall be determined by multiplying the hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by each 12-months production summation and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the emission factor of 0.035 lb PM/ton established during the most recent test (09/11/03) shall be used in this calculation.

Emission Limitation-
87.68 lbs/hr of CO

Applicable Compliance Method-

The hourly allowable emissions limitations established in this permit through BAT are based upon site specific

emissions testing conducted on (09/11/03). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 10, of 40 CFR Part 60, Appendix A.

Emissions Limitation-
54.80 tons/yr of CO

Applicable Compliance Method-

Compliance shall be determined by multiplying the hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by each 12-months production summation and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the emission factor of 0.274 lb CO/ton established during the most recent test (09/11/03) shall be used in this calculation.

Emission Limitation-
14.08 lbs/hr of NOx

Applicable Compliance Method-

The hourly allowable emissions limitations established in this permit through BAT are based upon site specific emissions testing conducted on (09/11/03). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 7 or 7A (as appropriate), of 40 CFR Part 60, Appendix A.

Emissions Limitation-
8.8 tons/yr of NOx

Applicable Compliance Method-

Compliance shall be determined by multiplying the hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by each 12-months production summation and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the emission factor of 0.044 lb NOx/ton established during the most recent test (09/11/03) shall be used in this calculation.

Emission Limitation-
19.84 lbs/hr of SO2

Applicable Compliance Method-

The hourly allowable emissions limitations established in this permit through BAT are based upon site specific emissions testing conducted on (09/11/03). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 6 (as appropriate), of 40 CFR Part 60, Appendix A.

Emissions Limitation-
12.40 tons/yr of SO2

Applicable Compliance Method-

Compliance shall be determined by multiplying the hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by each 12-months production summation and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the emission factor of 0.062 lb SO2/ton established during the most recent test (09/11/03) shall be used in this calculation.

Emission Limitation-
26.24 lbs/hr of VOC

Applicable Compliance Method-

The hourly allowable emissions limitations established in this permit through BAT are based upon site specific emissions testing conducted on (09/11/03). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 25 (as appropriate), of 40 CFR Part 60, Appendix A.

Emissions Limitation-
16.4 tons/yr of VOC

Applicable Compliance Method-

Compliance shall be determined by multiplying the hourly emission rate in pounds per ton of asphaltic concrete production from the most recent compliance test by each 12-months production summation and dividing by 2,000 lbs/ton. Until additional emission tests are conducted, the emission factor of 0.082 lb VOC/ton established during the most recent test (09/11/03) shall be used in this calculation.

Emissions Limitation-
20 percent opacity as a 6-minute average, from the stack

Applicable Compliance Method-

Compliance shall be demonstrated through visible emissions observations in accordance with OAC rule 3745-17-03(B)(1).

Emission Limitation-
no visible emissions from the enclosures

Applicable Compliance Method-

Compliance shall be demonstrated through visible emissions observations in accordance with OAC rule 3745-17-03(B)(4).

2. Future emission testing for CO shall be conducted at the frequency specified in Ohio EPA engineering Guide #16 based on the results of the initial emissions testing.

If necessary CO test shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 10, of 40 CFR Part 60, Appendix A", while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

During the first full production season in which this permit is effective, 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. The particulate test(s) shall be conducted in accordance with the test methods and procedures specified in "USEPA Reference Method 5, of 40 CFR Part 60, Appendix A" while the emissions unit is operating at or near maximum capacity and using only "virgin aggregate".

Future emission testing for PM may be required at the discretion of RAPCA.

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 emissions unit operating parameters, the time(s) and dates(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 field office's refusal to accept the results of the emissions test(s).

Personnel from the 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 regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emissions test(s) shall be submitted 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

F. Miscellaneous Requirements

1. The terms and conditions of Sections A, B, C, D and E are federally enforceable.