

Facility ID: 0857103035 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: 0857103035 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>
180 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 08-03267	<p>The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart I, OAC rule 3745-35-07(B) and OAC rule 3745-31-05(D).</p> <p>The particulate emissions (PE) from the stack for this emissions unit shall not exceed 2.03 tons/yr.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 72 lbs/hr.</p> <p>The nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 21.6 lbs/hr and 27 tons/yr.</p> <p>The sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 15.84 lbs/hr and 19.8 tons/yr.</p> <p>The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 7.74 lbs/hr and 9.68 tons/yr.</p> <p>The ton/yr limitation are based upon a rolling 12-month summation.</p> <p>Visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper shall not exceed 20 percent opacity, as a 3-minute average.</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 carbon monoxide (CO) emissions from this emissions unit shall not exceed 90.0 tons/yr.</p> <p>The ton/yr limitation is based upon a rolling 12-month summation</p> <p>Particulate emissions shall not exceed 0.04 grain per</p>
	OAC rule 3745-35-07(B) (synthetic minor to avoid Title V) and OAC rule 3745-31-05(C) (synthetic minor to avoid Title V)	

NSPS 40 CFR Part 60, Subpart I

dry standard cubic foot of exhaust gases.

Visible particulate emissions shall not exceed 20 percent opacity, as a 6-minute average, from the stack, except as provided by 40 CFR Part 60.11.

The visible emission limitation specified by OAC rule 3745-17-07(A) and the mass emission limitation specified by OAC rule 3745-17-11(B) are less stringent than the visible emission and mass emission limitations specified by 40 CFR Part 60, Subpart I.

aggregate storage bins and cold aggregate elevator

OAC rule 3745-17-07(A) and 3745-17-11(B)

OAC rule 3745-31-05(A)(3)
PTI 08-03267

Visible emissions shall not exceed 20 percent opacity, as a 3-minute average, for the fugitive dust emissions.

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.

2. Additional Terms and Conditions

- (a) The lbs/hr of CO, NOx, SO2 and 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 emission limitation specified above includes particulate matter (PM-10) emissions that are less than 10 microns in diameter.

B. Operational Restrictions

- 1. The maximum annual production rate for this emissions unit shall not exceed 450,000 tons, based upon a rolling 12-month summation.
- 2. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 4.0 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 3 ppm, maximum
- cadmium 5 ppm, maximum
- chromium 25 ppm, maximum
- lead 150 ppm, maximum
- PCB's 10 ppm, maximum**
- total halogens 4000 ppm maximum***
- mercury 1 ppm, maximum
- flash point 100 degrees Fahrenheit, minimum
- heat content 135,000 Btu/gallon, minimum

* Some or all of these used oil specifications exceed the Resource Conservation & Recovery Act Standards of 40 CFR Part 266.40 and OAC rule 3745-58-50, thereby, making the used oil off-specification.

** 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.

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible fugitive particulate emissions from the hot aggregate elevator, vibrating screens, weigh hopper, aggregate storage bins and cold aggregate elevator serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the abnormal visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned frequencies for performing the visible emissions checks if operating experience indicates that less frequent visible emissions checks would be sufficient to ensure compliance with the above-mentioned applicable requirements.

D. Reporting Requirements

1. The permittee shall submit quarterly 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.
2. The permittee shall submit pressure drop quarterly 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.
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, NO_x, 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).
5. The permittee shall submit quarterly deviation (excursion) reports that (a) identify all days during which any visible particulate emissions were observed in excess of the allowable opacity limit specified above from the stack

servicing this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the hot aggregate elevator, vibrating screens, weigh hopper, aggregate storage bins and cold aggregate elevator serving this emissions unit, and (c) describe any corrective actions taken to minimize the abnormal visible particulate and/or visible fugitive particulate emissions.

6. These quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office or local air agency by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

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-
particulate emission shall not exceed 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 -
2.03 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 0.009 lb PM/ton shall be used in this calculation.

Emission Limitation-
72 lbs/hr of CO

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hour by the emission factor of 0.40 lb CO/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00). 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-
90 tons/yr of CO

Applicable Compliance Method-
Compliance shall be determined by multiplying each 12-months production summation by the emission factor of 0.40 lb CO/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00), and dividing by 2,000 pounds per ton.

Emission Limitation-
21.6 lbs/hr of NOx

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hour by the emission factor of 0.12 lb NOx/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method 7 or 7E (as appropriate), of 40 CFR Part 60, Appendix A.

Emissions Limitation-
27 tons/yr of NOx

Applicable Compliance Method-
Compliance shall be determined by multiplying each 12-months production summation by the emission factor of 0.12 lb NOx/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00), and dividing by 2,000 pounds per ton.

Emission Limitation-
15.84 lbs/hr of SO2

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hour by the emission factor of 0.088 lb SO2/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00). 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-
19.8 ton/yr of SO2

Applicable Compliance Method-
Compliance shall be determined by multiplying each 12-months production summation by the emission factor of 0.088 lb SO2/ton, as specified in USEPA reference document AP-42, 11.1-5 (12/00), and dividing by 2,000 pounds per ton.

Emission Limitation-
7.74 lbs/hr of OC

Applicable Compliance Method-
Compliance shall be determined by multiplying the maximum hourly production rate of 180 tons/hour by the emission factor of 0.043 lb OC/ton, as specified in USEPA reference document AP-42, 11.1-6 (12/00). If required, compliance shall be based on conducting a stack test in accordance with USEPA Reference Method

25 or 25A (as appropriate), of 40 CFR Part 60, Appendix A.

Emissions Limitation-
9.68 tons/yr of OC

Applicable Compliance Method-
Compliance shall be determined by multiplying each 12-months production summation by the emission factor of 0.043 lb OC/ton, as specified in USEPA reference document AP-42, 11.1-6 (12/00), and dividing by 2,000 pounds per ton.
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-
20 percent opacity as a 3-minute average, from fugitives

Applicable Compliance Method-
Compliance shall be demonstrated through visible emissions observations in accordance with OAC rule 3745-17-03(B)(3).

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

Future emission testing for PM, VOC and SO2 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. None