Facility ID: 0857711455 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: 0857711455 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
300 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 08-3266	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). The particulate emissions (PE) from this emissions unit shall not exceed 1.24 tons per year (TPY). The carbon monoxide (CO) emissions from this emissions unit shall not exceed 120 pounds per hour (lbs/hr). The nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 36 lbs/hr. The sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 26.4 lbs/hr. The organic compound (OC) emissions from this emissions unit shall not exceed 12.90 lbs/hr and 9.68 TPY. 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. 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.
	OAC rule 3745-31-05(C) (synthetic minor to avoid Title V and PSD)	The CO emissions from this emissions unit shall not exceed 90.0 TPY. The NOx emissions from this emissions unit shall not exceed 27 TPY. The SO2 emissions from this emissions unit shall not exceed 19.8 TPY. The ton/yr limitations are based upon a rolling 12-month summation
aggregate storage bins and cold aggregate elevator	NSPS 40 CFR Part 60, Subpart I	Particulate emissions shall not exceed 0.04 grain per 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.
	OAC rule 3745-17-07(A) and 3745-17-11(B)	The emission limitation specified in these rules are less stringent than the emission limitation specified in 40 CFR Part 60, Subpart I.
aggregate storage bins and cold aggregate elevator	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B) and 3745-17-08(B).
	OAC rule 3745-17-07(B)	Visible emissions shall not exceed 20 percent opacity, as a 3-minute average, for the fugitive dust emissions.
	OAC rule 3745-17-08(B)	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 120 lbs/hr of CO, 36 lbs/hr of NOx, 26.4 lb/hr of SO2 and 12.9 lbs/hr of OC 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 (PM-10) emissions that are less than 10 microns in diameter.
All used oil burned in this emissions unit shall meet the requirements for burning off-specification used oil for energy recovery, contained in OAC rules 3745-279-60 through 3745-279-67 and shall contain less than the quantifiable levels of PCBs as defined in 40 CFR 761.3.
All used oil burned in this emissions unit shall meet the following limitations for PCBs, mercury, total halogens, and heat content:

Contaminant/Property Off-Specification Used Oil Fuel Limitations

PCB's less than 2 ppm
total halogens 4,000 ppm maximum*
mercury 1 ppm, maximum
heat content 135,000 Btu/gallon, minimum

* Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph (B)(1) of rule 3745-279-10 of the Administrative Code. The permittee may receive and burn used oil exceeding 1,000 ppm total halogens (but less than 4,000 ppm maximum) only if the permittee has demonstrated that the used oil does not contain any hazardous waste pursuant to OAC rule 3745-279-63.

The management and burning of used oil is subject to the Standards for the Management of Used Oil, OAC Chapter 3745-279, and the permittee shall document and assure that used oils burned in this emissions unit meet all of the applicable requirements of this Chapter.

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 3 to 6 inches of water when the emissions unit is in operation.

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 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.

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 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 serving 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.

4. These quarterly deviation (excursion) reports shall be submitted to the Director (appropriate DO or LAA) 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 the calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

5. 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 April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data from this emissions unit in the annual Fee Emission Report.

6. The permittee shall notify the U.S. EPA and both the Ohio EPA Division of Hazardous Waste Management and the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency), in writing and within 30 days, of burning any used oil exceeding the limitations found in OAC rule 3745-279-11 prior to obtaining a U.S. EPA identification number; and/or any incident or occurrence of non-compliance with any applicable requirement of OAC Chapter 3745-279 and/or 40 CFR part 761; and shall also notify the Ohio EPA Division of Air Pollution Control, within the same amount of time, if any oil is/was burned which exceeds the PCBs, total halogens, and/or mercury limitations and/or is documented as having a heating value of less than 135,000 Btu/gallon.

7. The permittee shall notify both the Ohio EPA Division of Hazardous Waste Management and the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency), in writing and within 30 days, of any occurrence of non-compliance with the requirements set forth in OAC rules 3745-279-60 through 67, which includes the storage and tracking of the used oil.

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-
PE emissions shall not exceed 0.04 gr/dscf;
CO emissions when burning off-spec used oil or #2 fuel oil shall not exceed 120 lbs/hr;
NOx emissions when burning off-spec used oil or #2 fuel oil shall not exceed 36 lbs/hr,
SO2 emissions when burning off-spec used oil or #2 fuel oil shall not exceed 26.4 lbs/hr,
OC emissions when burning off-spec used oil or #2 fuel oil shall not exceed 12.9 lbs/hr.

Applicable Compliance Method-
During the first full production season this emissions unit is in operation, the permittee shall conduct, or have conducted, emission testing for this emissions unit in order to demonstrate compliance with the allowable mass emission rate for PM, CO, NOx, OC and SO2. Within 24 months of expiration of this permit, the permittee shall conduct or have conducted, emissions testing for CO.

The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s) for:

PM, USEPA Reference Methods 1-5, of 40 CFR Part 60, Appendix A.

CO, USEPA Reference Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.

NOx, USEPA Reference Methods 1-4 and 7 or 7A of 40 CFR Part 60, Appendix A.

OC, USEPA Reference Methods 1-4 and 18 and/or 25 of 40 CFR Part 60, Appendix A.

SO2, USEPA Reference Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

The test shall be conducted while the emissions unit is operating at or near maximum capacity and burning #2 or off spec used oil for PM, CO, NOx, OC and SO2 and employing RAP to verify VOC emissions, unless otherwise specified or approved by the Ohio EPA District Office or local air agency.
Not later than 60 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.
Emission Limitation -
1.24 tons/yr PE

Applicable Compliance Method -
Compliance shall be determined by multiplying each 12-month production summation by the site specific emission factor determined by the most recent emissions testing and dividing by 2,000 pounds per ton. The particulate emissions limit, 1.24 TPY, was determined by multiplying the maximum production rate, 450,000 tons, by the site specific emissions factor of 0.0055 lb PM/ton and dividing by 2,000 pounds per ton.
Emissions Limitation-
90 tons/yr of CO, on a 12-month rolling basis.

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 (03/04), and dividing by 2,000 pounds per ton.
Emissions Limitation-
27 tons/yr of NOx, on a 12-month rolling basis.

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 (03/04), and dividing by 2,000 pounds per ton.
Emissions Limitation-
19.8 ton/yr of SO2, on a 12-month rolling basis.

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 (03/04), and dividing by 2,000 pounds per ton.
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 (03/04), 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 determined through visible emission evaluations performed using the methods and

procedures specified in Reference Method 9 of 40 CFR Part 60, Appendix A, and 40 CFR 60.675(c).

Emission Limitation-
20 percent opacity as a 3-minute average, from fugitives

Applicable Compliance Method-
Compliance shall be determined through visible emission evaluations performed using the methods and procedures specified in Reference Method 9 of 40 CFR Part 60, Appendix A, and 40 CFR 60.675(c).

F. **Miscellaneous Requirements**

1. All the terms and conditions of this permit are federally enforceable.