

Facility ID: 0247120476 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: 0247120476 Emissions Unit ID: P903 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 TPH Gentec drum asphalt plant with 60,000 ACFM baghouse, permitted to burn natural gas, no. 2 fuel oil, or no. 4 on-spec used oil	OAC rule 3745-31-05(A)(3) (PTI 02-15963)	Emissions from the asphalt plant shall not exceed the following limits: carbon monoxide (CO): 58.3 lbs/hr, 58.3 TPY sulfur dioxide (SO2): 29.4 lbs/hr, 29.4 TPY nitrogen oxides (NOx): 10.0 lbs/hr, 10.0 TPY organic compounds (OC): 27.3 lbs/hr, 27.3 TPY particulate emissions (PE): 21.0 lbs/hr, 21.0TPY Visible emissions of fugitive dust from material transfer shall not exceed 20% opacity, as a three-minute average. Visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper shall not exceed 10% opacity, as a six-minute average.
	NSPS, 40 CFR, Part 60, Subpart I	The requirements of this rule also include compliance with the requirements of 40 CFR, Part 60, Subpart I. PE from the stack serving this emissions unit shall not exceed 0.04 gr/dscf of exhaust gases.
	OAC rule 3745-35-07(B)(1) (PTI 02-15963)	Visible PE from the stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average. 58.3 tons of CO, as a rolling, 12-month summation; 29.4 tons of SO2, as a rolling, 12-month summation; 27.3 tons of OC, as a rolling, 12-month summation; and
	OAC rule 3745-17-07(A)(1)	operating hours shall be restricted to 2,000 hours as a rolling, 12-month summation.
	OAC rule 3745-17-07(B)(1)	The visible PE limitation specified in this rule, is less stringent than the visible emission limitation specified in 40 CFR, Part 60, Subpart I.
	OAC rule 3745-17-11(B)	The visible emission limitation specified in this rule is less stringent than the limitation established pursuant to OAC rule 3745-17-07(B). The PE limitation established by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	OAC rule 3745-18-06	The emission limitation specified in this rule is less stringent than the limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See section A.2.d.
	OAC rule 3745-21-07(B)	See section A.2.d.
	OAC rule 3745-23-06(B)	See section A.2.d.
Aggregate handling (loading into hoppers)	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust from material transfer shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	See section A.2.f.

2. **Additional Terms and Conditions**

- (a) The permittee shall use only natural gas, #2 fuel oil, or #4 "on-spec" used oil as a fuel in this unit; "off-spec" used oil shall not be used in this unit. All used oil burned in this emissions unit shall be "on-specification" (on-spec) oil and must meet the used oil fuel specifications contained in OAC 3745-279-11, which restricts the used oil to the following limitations:

Contaminant/Property Allowable Specifications

arsenic 5 ppm, maximum
 cadmium 2 ppm, maximum
 chromium 10 ppm, maximum
 lead 100 ppm, maximum
 total halogens 4,000 ppm maximum**
 flash point 100oF, minimum;

and shall also not exceed the following maximum PCB and mercury limitations nor fall below the following heating value:

heat content 135,000 Btu/gallon, minimum
 PCB's 50 ppm, maximum*
 mercury 1 ppm, maximum

* 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 burning of used oil not meeting the above limitations is prohibited in this emissions unit. 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.

If the permittee is burning used oil with any quantifiable level (above 2 ppm) of PCB's, then the permittee is subject to the notification requirements of 40 CFR 279.62.

The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-07(B) and the "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08(B) and 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

The permittee shall ensure that the baghouse is operated with sufficient air volume to minimize or eliminate visible particulate emissions of fugitive dust at the point of capture to the extent possible with good engineering design.

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, aggregate conveyor and storage bins. The cold aggregate elevator shall be covered at all times.

The aggregate loaded into the storage bins shall have a moisture content sufficient to minimize the visible emissions of fugitive dust from the elevator loading area and from conveyors and transfer points to the dryer.

B. **Operational Restrictions**

1. The pressure drop across the baghouse shall be maintained within the range of 2.0 to 8.0 inches of water column at all times while the emissions unit is in operation.
2. Operating hours shall be limited to 2,000 hours as a rolling, 12-month summation.
3. The permittee may substitute recycled asphalt pavement (RAP) aggregates in the raw material feed mix in amounts not to exceed 50% of all aggregate materials introduced, based on a daily average of all aggregate material.
4. The source comprising this permit to install shall combust only natural gas, #2 fuel oil, or #4 "on-spec" used oil of no more than 0.5% sulfur content by weight.
5. The permittee may not receive or burn any used oil which does not meet the specifications listed in A.2.b of this permit without first obtaining a permit to install that authorizes the burning of such off-specification used oil by applying for a new permit. The burning of off-specification used oil is subject to OAC rule 3745-279-60 through 67 and is not authorized in the permit.
6. The permittee shall not exceed the maximum allowable operating temperature (degrees Fahrenheit), which was established during the most recent stack test that demonstrated the emissions unit to be in compliance.
7. The permittee shall not exceed the maximum allowable operating rate (tons per hour), that established during the

most recent stack test that demonstrated the emissions unit to be in compliance.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the operating hours for each month; and
 - b. the cumulative rolling, 12-month summation of the operating hours.
2. The permittee shall maintain monthly records of the amount of asphalt produced (in tons).
3. The permittee shall maintain monthly records of the rolling, 12-month summation of asphalt produced (in tons) and the rolling 12-month emissions of CO, SO₂ and OC, calculated as required in the testing section.
4. The permittee shall properly operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be 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.
5. The permittee shall maintain daily records of the percentage of RAP mixed with the raw material feed mix; the weight of the RAP shall not exceed the weight of the virgin aggregate.
6. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of #2 fuel oil and #4 "on-spec" used oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analysis for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA Northeast District Office.
7. For each shipment of oil (#2 fuel oil or #4 "on-spec" used oil) received for burning in this emissions unit, the permittee shall maintain records of the total quantity of each type of oil received and the permittee's or oil supplier's analysis for sulfur content and heat content.
8. The permittee shall receive and maintain the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit, which shall contain the following information:
 - a. the date the used oil was received at the facility;
 - b. the name, address, and U.S. EPA identification number (if applicable) of the generator, transporter, processor/re-finer, supplier, and/or marketer;
 - c. the results of the chemical analyses demonstrating the used oil meets the standards in OAC 3745-279-11, including:
 - i. arsenic content, in ppm;
 - ii. the cadmium content, in ppm;
 - iii. the chromium content, in ppm;
 - iv. the lead content, in ppm;
 - v. total halogens, in ppm; and
 - vi. the flash point
 - d. the analysis demonstrating that the used oil has a total halogen content below 1,000 ppm, or below 4,000 ppm with the demonstration for the rebuttal of the presumption that the oil is hazardous waste or has been mixed with hazardous waste, as described in OAC rule 3745-279-63 (B); and
 - e. the results of the analyses demonstrating that the used oil meets the heating value and mercury and PCB limitations contained in this permit.

Each analysis shall be kept in a readily accessible location for a period of not less than 3 years following the receipt of each shipment of used oil and shall be made available to the Ohio EPA Division of Hazardous Waste Management and/or the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. Any authorized representative of the Ohio EPA may sample or require sampling of any used oil shipments received, stored, or burned by/at this facility for periodic detailed chemical analyses, through an independent laboratory.
9. The permittee shall maintain records of the daily average operating temperature in degrees Fahrenheit.
10. The permittee shall maintain record of the daily peak production rate in tons per hour.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports which identify any exceedance of the 50% percent RAP content restriction.
3. The permittee shall submit deviation (excursion) reports which identify any exceedance of the rolling, 12-month summation of hours of operation.
4. The permittee shall submit deviation (excursion) reports that identify any exceedance of the rolling, 12-month limits for CO, SO₂, and/or OC emissions.
5. The permittee shall submit deviation (excursion) reports that identify any exceedance of the fuel oil's (#4 "on-spec" used oil or #2 fuel oil) allowable sulfur content (% sulfur).
6. The permittee shall submit, on a quarterly basis, copies of the permittee's or oil supplier's analyses for each shipment of #4 "on-spec" used oil which is received for burning in this emissions unit, or a letter stating no #4

"on-spec" used oil was received that quarter, as appropriate. The permittee's or oil supplier's analysis shall document the sulfur content (percent) and heat content (Btu/gallon) for each shipment of oil. The following information shall also be included with the copies of the permittee's or oil supplier's analyses:

- a. the total quantity of oil received in each shipment (gallons);
- b. the weighted* average SO2 emission rate (lbs/mmBtu) for the oil received during the calendar month; and
- c. the weighted* average heat content (Btu/gallon) of the oil received during the calendar month.

*In proportion to the quantity of oil received in each shipment during the calendar month.

7. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, #2 fuel oil, and/or "on-spec" used oil", meeting the requirements of this permit, was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
8. The permittee shall submit deviation (excursion) reports which identify any exceedances of the maximum allowable operating temperature (degrees Fahrenheit), as was established during the most recent stack test that demonstrated the emissions unit to be in compliance.
9. The permittee shall submit deviation (excursion) reports which identify any exceedances of the maximum allowable operating rate (tons per hour), from that which was established during the most recent stack test that demonstrated the emissions unit to be in compliance.
10. The permittee shall notify 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 and/or any incident or occurrence of non-compliance with any other applicable requirement of OAC Chapter 3745-279; 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 mercury limitation of 1 ppm and/or is documented as having a heating value of less than 135,000 Btu/gallon.

E. Testing Requirements

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:

0.04 grain of PE per dry standard cubic foot of exhaust gases
 21.0 lbs/hr of PE
 10.0 lbs/hr of NOx
 58.3 lbs/hr of CO
 29.4 lbs/hr of SO2
 27.3 lbs/hr of OC

Applicable Compliance Method:

Compliance with the above emission limitations was determined through stack testing on August 8, 2001. Ongoing stack testing is required in section E.2. of these terms and conditions.

Emission Limitation:

21.0 tons of PE per year
 10.0 tons of NOX per year
 58.3 tons of CO per year
 29.4 tons of SO2 per year
 27.3 tons of OC per year

Applicable Compliance Method:

Compliance shall be determined using the following formula for each pollutant:

$$E = A \times B [1 \text{ ton} / 2,000 \text{ lbs}]$$

where:

E = emission rate in tons per year

A = average emission rate in pounds of pollutant per ton of asphalt produced from the most recent performance stack test

B = annual amount of asphalt produced (tons)

Emission Limitation:

Visible PE from the stack shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method 9.

Emission Limitation:

Visible emissions of fugitive dust from the enclosures for the hot aggregate elevator, vibrating screens, and weigh hopper shall not exceed 10% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method 9.

Emission Limitation:

Visible emissions of fugitive dust from material transfer shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

Compliance with the above visible emission limitation shall be determined through visible emissions observations performed in accordance with 40 CFR, Part 60, Appendix A, Method 9, except that the data reduction and average opacity calculation shall be based upon sets of twelve consecutive visible emission observations recorded at fifteen-second intervals.

2. The permittee shall conduct or have conducted, stack testing for PE, NOx, OC, CO, and SO2, in accordance with the following requirements:
 - a. The stack testing shall be performed within 1 year after the effective date of this permit and again within 6 months prior to permit expiration.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, NOx, CO, OC, and SO2.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

PE - Method 5 of 40 CFR Part 60, Appendix A
NOx - Method 7 or 7E of 40 CFR Part 60, Appendix A
CO - Method 10 of 40 CFR Part 60, Appendix A
OC - Method 18, 25, or 25A of 40 CFR Part 60, Appendix A
SO2 - Method 6 of 40 CFR Part 60, Appendix A
 - 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 Ohio EPA Northeast District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Northeast District Office. 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(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 Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office 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 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 Ohio EPA Northeast District Office within 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 Ohio EPA Northeast District Office.

F. Miscellaneous Requirements

1. The terms and conditions of this PTO supercede the terms and conditions of the PTO issued for this unit on April 20, 2000.