

Facility ID: 0679000270 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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: 0679000270 Emissions Unit ID: P902 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
P902 - 250 ton/hour drum mix asphalt plant vented to a baghouse	OAC rule 3745-31-05(A)(3) PTI # 06-07733	Emissions of carbon monoxide (CO) shall not exceed 32.5 lbs/hour. Emissions of oxides of nitrogen (NOx) shall not exceed 13.8 lb/hour. Emissions of sulfur dioxide (SO2) shall not exceed 14.5 lb/hour. Emissions of volatile organic compounds (VOC) shall not exceed 16.5 lb/hour. Emissions of particulate matter shall not exceed 0.03 grains/dscf of exhaust gases.
	40 CFR Part 60, Subpart I	Visible particulate emissions from the stack serving this emissions unit shall be less than or equal to 20 percent opacity, as a 3-minute average.
	OAC rule 3745-17-07 (A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11 (A)	The emission limitation specified 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(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-23-06(B)	See Section A.2.b.
	OAC rule 3745-31-05(C)	Particulate emissions (PE) from the baghouse stack shall not exceed 9.0 TPY based upon a rolling, 12-month summation of the monthly emissions.
		Fugitive PE shall not exceed 1.4 TPY based upon a rolling, 12-month summation of the monthly emissions.
		Emissions of CO shall not exceed 32.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Emissions of NOx shall not exceed 13.8 TPY based upon a rolling, 12-month summation of the monthly emissions.

Emissions of SO2 shall not exceed 14.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Emissions of VOC shall not exceed 16.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

See Section B.1.

aggregate storage bins, cold aggregate elevator OAC rule 3745-31-05 (A)(3)

Visible emissions of fugitive dust shall be less than or equal to 10% opacity, as a 3-minute average.

Fugitive PE shall not exceed 1.4 lbs/hr.

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 minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.

2. Additional Terms and Conditions

- (a) In accordance with OAC rule 3745-31-05, this emissions unit has been approved for the use of recycled asphalt products.
The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06, by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3).
The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

B. Operational Restrictions

- 1. The maximum annual operating rate for this emissions unit shall not exceed 500,000 tons of asphalt production, based upon a rolling 12-month summation of the asphalt production.
- 2. All used oil burned in this emissions unit shall be "on-specification" (on-spec) oil which meets the following limitations:

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 4,000 ppm maximum*
mercury 1 ppm, maximum
flash point 100 degrees F, minimum
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 supplier/marketer has certified, in writing, that the used oil does not contain any hazardous waste pursuant to OAC rule 3745-279-63. The burning of used oil qualifying as hazardous waste is prohibited in this emissions unit.

- 3. The burning of hazardous waste is prohibited without first complying with all applicable state and federal hazardous waste and air regulations and permits.
- 4. The permittee shall only burn low sulfur fuels, containing less than 0.5% sulfur by weight, in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

- 1. 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 baghouse stack and any visible particulate emissions from the aggregate storage bins and cold aggregate elevator associated with 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 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 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.

- 2. The permittee shall maintain monthly records of the following information:
 - a. The asphalt production, in tons, for each month.
 - b. The rolling, 12-month summation of the asphalt production, in tons.
- 3. The permittee shall receive 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 USEPA identification number (if applicable) of the supplier/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. flash point;
 - d. the analysis demonstrating that the used oil is below 1,000 ppm total halogens or the certification for the rebuttal of the assumption 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 at least 5 years and shall be made available to the director (the Ohio EPA Southeast District Office) upon verbal or written request. The director, or any authorized representative of the director, may require or may conduct periodic detailed chemical analyses, by the agency (Ohio EPA) or through an independent laboratory, of any used oil shipments received by this facility or any used oil stored at this facility.

D. Reporting Requirements

- 1. The permittee shall submit semiannual written reports that include the following:
 - a. An identification of all days during which any visible PE or fugitive PE were observed from the baghouse stack and the aggregate storage bins and cold aggregate elevator associated with this emissions unit.
 - b. A description of any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month asphalt production limitation. These reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.
- 3. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:
 - a. construction date (no later than 30 days after such date);
 - b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. actual start-up date (within 15 days after such date); and
 - d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
 DAPC - Permit Management Unit
 P. O. Box 163669
 Columbus, Ohio 43216-3669

and

Southeast District Office
2195 Front Street
Logan, Ohio 43138

4. The permittee shall notify the U.S. EPA and the Ohio EPA Southeast District Office, in writing and within 30 days, of burning any used oil exceeding the on-spec oil limitations found in OAC rule 3745-279-11 and/or any incident or occurrence of non-compliance with any other applicable requirement of 40 CFR part 279; and shall also notify the Ohio EPA, 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.
5. The permittee shall submit deviation (excursion) reports which identify any exceedance of the sulfur content fuel restriction specified in Section B.4. The notification shall be sent to the Ohio EPA, Southeast District Office within 30 days after the exceedance occurs.

E. Testing Requirements

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

Emissions Limitation:

Emissions of particulate matter shall not exceed 0.03 grains/dscf of exhaust gases.

PE shall not exceed 9.0 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

Particulate emissions have been determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton. This limit is based on the following calculation:

$(0.03 \text{ gr/dscf})(35000 \text{ cfm})(60 \text{ min/hr})(1 \text{ lb/7000 gr})(2000 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 9.0 \text{ TPY}$

Emission Limitation:

Emissions of volatile organic compounds (VOC) shall not exceed 16.5 lb/hour.

Emissions of VOC shall not exceed 16.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Methods:

The VOC emission rate, with the emissions unit operating at or near capacity and with no controls on VOC emissions, was determined for P902 in a performance test on July 6, 2006, using test Methods 1-4 and 25 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources." The allowable rate for this emissions unit was established as the average of the three one-hour values, plus a margin of safety of 15 percent.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

Emissions Limitation:

Emissions of sulfur dioxide (SO₂) shall not exceed 14.5 lb/hour

Emissions of SO₂ shall not exceed 14.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

Sulfur dioxide emissions have been determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.058 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 14.5 lb SO₂ per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

Emissions Limitation:

Emissions of oxides of nitrogen (NO_x) shall not exceed 13.8 lb/hour.

Emissions of NO_x shall not exceed 13.8 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

Nitrogen oxides emissions have been determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.055 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 13.75 lb NO_x per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

Emissions Limitation:

Emissions of carbon monoxide (CO) shall not exceed 32.5 lbs/hour.

Emissions of CO shall not exceed 32.5 TPY based upon a rolling, 12-month summation of the monthly emissions.

Compliance Method:

Carbon monoxide emissions have been determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Initial compliance has been demonstrated by multiplying the emission factor from AP-42, Table 11.1-7 (12/00), 0.13 pounds of emissions per ton of production, by the maximum hourly production rate of 250 tons per hour to obtain 32.5 lb CO per hour.

Compliance with the annual limit shall be determined by multiplying the tested emission rate, as determined by the latest stack test, in pounds of emissions per ton of asphalt production, by the 12-month asphalt production as recorded in Section C.2, in tons per year and dividing by 2000 pounds per ton.

Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall be less than or equal to 20 percent opacity, as a 3-minute average.

Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

Emission Limitation:

Visible emissions of fugitive dust shall be less than or equal to 10% opacity, as a 3-minute average.

Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

Emission Limitation

Annual emission shall not exceed 1.4 TPY of fugitive particulate emissions as a rolling 12-month summation.

Applicable Compliance Method

Compliance with the annual emissions limitation shall be determined using the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

$((363,635 \text{ tons of aggregate/year} \times 0.0069 \text{ lb PE/ton of aggregate}) + (136,365 \text{ tons of sand/year} \times 0.0021 \text{ lb PE/ton of sand})) \times (0.0005 \text{ ton/lb}) = 1.40 \text{ ton}$

The emissions factors in the above equation are derived from AP-42, Table 11.12-2 (10/01).

Emission Limitation

Emissions of fugitive particulate emissions shall not exceed 1.4 pounds per hour

Applicable Compliance Method

Compliance with the hourly emissions limitation shall be determined using the following worst case calculation, where total fugitive emissions equal the summation of the fugitives from the aggregate storage bins, cold aggregate elevator, and associated operations:

$((182 \text{ tons of aggregate/hour} \times 0.0069 \text{ lb PE/ton of aggregate}) + (68 \text{ tons of sand/hour} \times 0.0021 \text{ lb PE/ton of sand})) = 1.4 \text{ lbs PE/hr}$

The emissions factors in the above equation are derived from AP-42, Table 11.12-2 (10/01).

2. 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 within 12 months prior to the expiration of this permit.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for PM, CO, NOX, SO2, and VOC.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 for PE, Method 25 for VOC, Method 1-4 and 10 for CO, Method 1-4 and 6 for SO2, and Method 1-4 and 7 for NOX.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity using worst case fuel and per cent of RAP listed in this permit, unless otherwise specified or approved by the Ohio EPA Southeast 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 Southeast 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 Southeast District Office's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Southeast 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 Southeast 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 Southeast District Office.

F. **Miscellaneous Requirements**

1. None