

Facility ID: 1431400140 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: 1431400140 Emissions Unit ID: P907 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>
P907-325 TPH portable drum mix asphalt plant Rohe No. 2	OAC rule 3745-31-05 (PTI 14-04616)	Particulate Emissions (PE) from the fabric filter exhaust stack shall not exceed 4.6 lbs/hr.  Fugitive PE shall not exceed 8.13 lbs/hr.  Total PE from the fabric filter exhaust stack combined with Fugitive PE shall not exceed 9.75 TPY.  Total Particulate Emissions 10 microns and less in diameter (PM10) from the fabric filter stack combined with Fugitive PM10 shall not exceed 4.1 lbs/hr and 3.12 TPY.  Sulfur Dioxide (SO2) emissions shall not exceed 18.2 lbs/hr and 14.0 TPY.  Carbon Monoxide (CO) emissions shall not exceed 11.7 lbs/hr and 9.0 TPY.  Nitrogen Oxide (NOx) emissions shall not exceed 24.4 lbs/hr and 18.75 TPY.  Organic Compound (OC) emissions shall not exceed 22.4 lbs/hr and 17.25 TPY.  See term A.2.a.  Compliance with OAC rule 3745-31-05(A)(3) also includes compliance with OAC rules 3745-17-07(B), 3745-17-08(B) and 40 CFR Part 60, Subpart I.
	40 CFR Part 60, Subpart I	Particulate Emissions (PE) from the baghouse exhaust shall not exceed 0.04 gr/dscf.
	OAC rule 3745-17-07(A)	The visible emission limitation established by this rule is less stringent than the visible emission limitation established by OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(B)	Visible particulate emissions from any fugitive dust source shall not exceed twenty percent (20%) opacity as a three-minute average.
	OAC rule 3745-17-08(B)	Maintain aggregate in a moist condition so as to minimize or eliminate at all times visible emissions of fugitive dust.
	OAC rule 3745-17-11	The emission limitation established by this rule is less stringent than those established by OAC rule 3745-31-

05(BAT).

**2. Additional Terms and Conditions**

- (a) Visible particulate emissions from any stack shall not exceed ten percent (10%) opacity, as a 6-minute average.  
The permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate exemption requirements have been met and following the approval of the director. The director may issue a "Notice of Site Approval" if the portable source meets the following criteria pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
- a. the portable source has been issued a permit to install (PTI) and the permittee continues to comply with any applicable best available technology (BAT) determination and state and/or federal rules;
  - b. the portable source is operating pursuant to a currently effective PTI and/or any applicable permit to operate (PTO) and continues to comply with the requirements of the permit;
  - c. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation\*;
  - d. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance in violation of OAC rule 3745-15-07; and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
- e the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07 and the relocation will not result in the installation of a major stationary source or a modification of an existing major stationary source.
- The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site.

If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01, the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745-77-01, must also meet all applicable requirements under the Title V program contained in OAC rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties. 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. This emissions unit shall employ a fabric filter to control particulate emissions.

**B. Operational Restrictions**

1. The maximum asphaltic production unit shall not exceed 325 tons per hour.
2. The maximum annual production rate for this emissions unit shall not exceed 500,000 tons per year, based on a rolling 12-month summation of the production rates.
3. The sulfur content for the No. 2 oil utilized in this emissions unit shall not exceed 0.3 percent.
4. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the baghouse of not less than 2 inches of water or not greater than 6 inches of water shall be maintained at all times while the emissions unit is in operation.

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

1. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter 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 check the pressure drop once a day and maintain daily records of the pressure drop readings.
2. The permittee shall maintain records of the production rate for each month and the updated rolling, 12-month total of the tons of asphalt product produced.
3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content. A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as D240

Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

**D. Reporting Requirements**

1. The permittee shall submit pressure drop deviation reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified in section B.4.
2. The permittee shall submit deviation (excursion) reports that identify all exceedances of the rolling, 12-month production rate limitation.
3. The permittee shall submit quarterly deviation reports that identify all exceedances of the sulfur content limit in section B.3.
4. The permittee shall submit annual reports which specify the total PM, PM10, SO<sub>2</sub>, NO<sub>x</sub>, OC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
5. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit unless otherwise specified.

**E. Testing Requirements**

1. Emissions Limitations:  
Visible particulate emissions from any stack shall not exceed 10 percent opacity as a six-minute average, except as specified by rule.  
  
Applicable Compliance Method  
Compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Method 9.
2. Emission Limitation:  
Visible emissions of fugitive dust shall not exceed 20 percent opacity as a three-minute average.  
  
Applicable Compliance Method:  
  
Compliance shall be determined in accordance with U.S. EPA Method 9, with the following modifications:
  - a. the data reduction and average opacity calculation shall be based upon sets of twelve consecutive visible emission observations recorded at 15-second intervals;
  - b. opacity observations shall be made from a position that provides the observer a clear view of the emissions unit and the fugitive dust, with the sun behind the observer;
  - c. where possible, visible opacity observations shall be conducted at a position of at least fifteen feet from the source of emissions; and
  - d. the visible opacity observations shall be made for the point of highest opacity within the fugitive dust emitted from the source.
3. Compliance with the sulfur content limitation in term B.3 shall be demonstrated by the record keeping requirements in Term C.3.
4. Compliance with the annual asphalt production limitation in Term B.2 shall be demonstrated by the record keeping requirements in Term C.2.
5. Emissions Limitations:  
Total PE from the fabric filter exhaust stack combined with Fugitive PE shall not exceed 9.75 TPY.  
Sulfur Dioxide (SO<sub>2</sub>) emissions shall not exceed 14.0 TPY.  
Carbon Monoxide (CO) emissions shall not exceed 9.0 TPY.  
Nitrogen Oxide (NO<sub>x</sub>) emissions shall not exceed 18.75 TPY.  
Volatile Organic Compound (VOC) emissions shall not exceed 17.25 TPY.  
  
Applicable Compliance Method:  
The TPY emissions limitations in this permit were calculated using emissions factors from Chapter 11.1 "Hot Mix Asphalt Plants" in the Compilation of Air Pollution Factors (AP-42) Fifth Edition multiplied by the maximum annual production rate and then converted to tons.  
  
Fugitive Particulate Emissions limitations were calculated using emission factors from Reasonably Available Control Measures (RACM), Table 2.2.2-1. September 1980, multiplied by the maximum annual production rate and then converted to tons.
6. Emissions Limitations:  
Particulate Emissions (PE) from the fabric filter exhaust stack shall not exceed 4.6 lbs/hr.  
Particulate Emissions (PE) from the baghouse exhaust shall not exceed 0.04 gr/dscf.  
Sulfur Dioxide (SO<sub>2</sub>) emissions shall not exceed 18.2 lbs/hr.  
Carbon Monoxide (CO) emissions shall not exceed 11.7 lbs/hr.  
Nitrogen Oxide (NO<sub>x</sub>) emissions shall not exceed 24.4 lbs/hr.  
Organic Compound (OC) emissions shall not exceed 22.4 lbs/hr.  
  
Applicable Compliance Method:  
  
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 after issuance of this permit to operate.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NOx, SO2 and OC emissions rates.
- c. The following test methods, in addition to Methods 1 through 4 of 40CFR60 Appendix A, shall be employed to demonstrate compliance with the allowable mass emission rates: for PE emissions, Method 5; for CO emissions, Method 10, for NOx emissions, Method 7; for SO2 emissions, Method 6; for VOC emissions, Method 25. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA or Hamilton County Department of Environmental Services.

- 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 or Hamilton County Department of Environmental Services.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services 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 Hamilton County Department of Environmental Services.

**F. Miscellaneous Requirements**

- 1. None