

Facility ID: 0607000183 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.

- [Go to Part II for Emissions Unit F001](#)
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Facility ID: 0607000183 Emissions Unit ID: F001 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>
Paved Roadways and Parking Areas	PTI# 17-1040	Reasonably available control measures shall be used for the control of fugitive dust. There shall be no visible particulate emissions from any paved roadway or parking area except for a period of time not to exceed one minute during any 60-minute observation period.
Unpaved Roadways and Parking Areas	PTI# 17-1040	Reasonably available control measures shall be used for the control of fugitive dust. There shall be no visible particulate emissions from any unpaved roadway or parking area except for a period of time not to exceed three minutes during any 60-minute observation period.
Paved and Unpaved Roadways and Parking Areas	3745-17-08(B) PTI# 17-1040	Same as PTI. PM- 0.32 TPY

2. **Additional Terms and Conditions**
 - (a) None

B. Operational Restrictions

1. The permittee shall sweep the paved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. The following equipment shall be used to sweep the roadways and parking areas: a broom in conjunction with water flushing. The paved surfaces shall be swept as needed. The permittee shall not be required to sweep during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.
2. Any material carried off of the permittee's property and deposited onto public streets by vehicular traffic or by erosion by water, etc., shall be promptly removed and disposed of properly to minimize or prevent resuspension.
3. A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.
4. Open bodied vehicles transporting materials likely to become airborne shall be covered at all times.
5. The permittee shall apply dust suppressants to the unpaved roadways and parking areas to minimize or eliminate, at all times, visible emissions of fugitive dust generated by vehicular traffic. Water or MC-70(oil) shall be used as the dust suppressant, and the following equipment shall be used for the periodic applications: truck mounted distributor spray bar and water truck with spray bar. The dust suppressant shall be applied to the unpaved surfaces, as needed. This term and condition shall be waived during wet conditions when there is sufficient moisture to prevent visible emissions of fugitive dust.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain records which include the following information for the paved roadways and parking

areas:

- a. The date the paved surfaces were swept.
- b. The portions of the paved surfaces that were swept.
- c. The name of the equipment operator responsible for the sweeping.
- 2. The permittee shall maintain records which include the following information for the unpaved roadways and parking areas:
 - a. The date dust suppressants were applied to the unpaved surfaces.
 - b. The portions of unpaved surfaces that were treated with dust suppressants.
 - c. The application rate of water and any chemical additives (gallons of each per square yard).
 - d. The name of the equipment operator responsible for the application of the dust suppressants.

D. Reporting Requirements

- 1. None

E. Testing Requirements

- 1. Compliance with the visible particulate emission limitation in section A.1 of the terms and conditions shall be determined in accordance with the test method and procedures in OAC 3745-17-03(B)(4).
- 2. The PM emission limit in section A.1 of the terms and conditions were calculated using emission factors found in the US EPA publication titled Compilation of Air Pollutant Emission Factors AP-42,4th edition. The emission factor for paved roads is on page 11.2-6, and works out to be 0.02 lb/ vehicle mile traveled with a control efficiency of 70%.The emission factor for unpaved roads is on page 11.2-1.1, and works out to be 2.9 lb/VMT for vehicles with 10 wheels, 4.54 lb/VMT for 12 wheels, 9.05 lb/VMT for 18 wheels, and 1.45 lb/VMT for 4 wheels. The control efficiencies are 50% for water, 30% for gravel, and 90% for pavement. Annual PM emission is determined by multiplying the annual vehicle miles traveled for each type of vehicle and road surface by the proper emission factor. The annual uncontrolled PM is then multiplied by the control efficiency factor (1-control efficiency) for each road surface and vehicle type. These results are then totaled to determine the actual pounds per year annual PM. The pounds per year is divided by 2000 to determine tons per year.

F. Miscellaneous Requirements

- 1. None

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Part II - Special Terms and Conditions

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- 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>
Aggregate Storage Piles	PTI# 17-1336	5.42 TPY PM

Reasonably available control measures shall be used for the control of fugitive dust.

See section B.1,B.2, and B.3.

There shall be no visible particulate emissions from any aggregate storage piles except for a period of time not to exceed one minute during any 60-minute

- 3745-17-07(B)(1) observation period.
- 3745-17-08(B) Less stringent than PTI.
- 3745-17-08(B) Less stringent than PTI.
- 2. **Additional Terms and Conditions**
 - (a) None
- B. **Operational Restrictions**
 - 1. **Load Onto and Load Out :**
The permittee shall minimize the drop height of aggregate and ensure that the aggregate has sufficient moisture content to minimize or eliminate the emission of fugitive dust at all times. Dry, dusty material shall be wetted prior to loading onto the piles.
 - 2. **Wind Erosion:**
Storage piles shall have sufficient moisture to minimize or eliminate the emission of fugitive dust due to wind erosion. Should the aggregate pile become dry and fugitive dust is observed, then sufficient moisture shall be added to minimize or eliminate fugitive dust.
 - 3. **Vehicle Traffic:**
The permittee shall maintain and employ a water truck with a spray bar to apply water to the storage piles area to minimize or eliminate, at all times, the emission of fugitive dust generated by vehicles associated with storage pile activities.
- C. **Monitoring and/or Record Keeping Requirements**
 - 1. None
- D. **Reporting Requirements**
 - 1. None
- E. **Testing Requirements**
 - 1. Compliance with the visible particulate emission limitation in section A.1 of the terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(4).
 - 2. The PM emission limit in section A.1 of the terms and conditions was calculated using the emission factors found in the RACM book on page 2-465. The emission factors are: load onto 0.04 lb/ton, load out 0.05 lb/ton, vehicular traffic 0.013 lb/ton, and wind erosion 0.11 lb/ton. The control efficiencies are 25% for precautions, 50% for water, and 80% for speed reductions. The annual uncontrolled PM is determined by multiplying the annual tons of material stored by the emission factor for each activity. The annual uncontrolled emission rate for each activity is multiplied by the appropriate control efficiency factor (1-control efficiency) to determine the controlled annual emission rate. The pounds per year for each activity are summed and the total is divided by 2000 to determine the tons per year actual PM.
- F. **Miscellaneous Requirements**
 - 1. None

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Part II - Special Terms and Conditions

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- 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>
(a) rotary dryer, hot aggregate elevator, vibrating screens, and weigh hopper with fabric filter	(a) NSPS (40 CFR Part 60, Subpart I); PTI # 17-1336	(a) PM- 0.04 grain per dry standard cubic foot of exhaust gases and 4.30 tons/yr SULFUR DIOXIDE-16.06 lbs/hr and 19.28 tons/yr VOLATILE ORGANIC COUMPOUNDS-6.16 lbs/hr

and 7.39 tons/yr
 NITROGEN OXIDES -7.92 lbs/hr and 9.5 tons/yr
 CARBON MONOXIDE -8.36 lbs/hr and 10.03 tons/yr

(b) aggregate storage bins and cold aggregate (b) PTI # 17-1336 elevator

VISIBLE EMISSIONS- Opacity less than or equal to 10 percent, as a 6-minute average, from the stack
 (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 minimize or eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer

visible emissions of fugitive dust shall not exceed 20 percent opacity, as a 3-minute average

2. **Additional Terms and Conditions**

(a) None

B. **Operational Restrictions**

1. In accordance with permit to install number 17-1336, this emissions unit has been approved for the use of recycled asphalt products. This plant may use up to 10% recycled asphalt in the feed.
2. The quality of the oil burned in this emissions unit shall meet the following specifications on an as received basis:
 - (a) The rotary dryer is required to use # 2 fuel oil with a sulfur content of 0.5 percent or less, natural gas or propane as fuel.

Compliance with the above-mentioned sulfur content specification shall be determined by using an analysis from the oil supplier for each shipment of oil.
3. 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 3 or greater than 7 inches of water shall be maintained at all times.

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

1. Monthly records shall be kept of the amount of recycled asphalt used and the total asphalt production (tons per month).
2. Monthly records shall be maintained on site providing dates when oil is used, the amount of oil used (gallons), and an analysis from the oil supplier providing the type of fuel and sulfur content (percent by weight) for each shipment of oil.
3. The permittee shall properly operate and maintain a monitoring device capable of accurately measuring the pressure drop across the fabric filter.

The permittee shall check the pressure drop once a day and maintain daily records of the pressure drop readings.

D. **Reporting Requirements**

1. The permittee shall submit semi-annual deviation (excursion) reports which identify all exceedances of the above-mentioned recycle asphalt feed limit. The reports shall be submitted to the North Ohio Valley Air Authority by July 31 and January 31 for the preceding six-month period (January-June, July-December).
2. The permittee shall submit semi-annual deviation (excursion) reports which identify all exceedances of the above-mentioned sulfur content specification. The reports shall be submitted to the North Ohio Valley Air Authority by July 31 and January 31 for the preceding six-month period (January-June, July-December).
3. The permittee shall submit semi-annual deviation (excursion) reports which identify all exceedances of the above-mentioned allowable pressure drop range. The reports shall be submitted to the North Ohio Valley Air Authority by July 31 and January 31 for the preceding six- month period (January-June, July-December).
4. The permittee shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days prior to any planned relocation of this emissions unit, in accordance with OAC rule 3745-31-03(A)(6). (A copy of the form is attached to this permit.) Approval of the planned relocation must be obtained from the North Ohio Valley Air Authority prior to the relocation.

E. **Testing Requirements**

1. Compliance with the visible particulate emission limitations in section A.1of the terms and conditions shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03(B)(1) and (B)(4).
2. Emission testing requirements

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 1. The emission testing shall be conducted 6 months prior to permit renewal.
 2. The emission testing shall be conducted to demonstrate compliance with the 0.04 GR/DSCF-PM.

3. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate (s):Methods 1-5; 40 CFR Part 60, Appendix A

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

Personnel from the appropriate 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 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 appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s).

3. The mass emission limits for SO₂, VOC, NO_X, and CO in section A.1 of the terms and conditions were calculated using emission factors found in the US EPA publication titled Compilation of Air Pollutant Emission Factors, AP-42,4th edition. The following emission factors are from pages 8.1-12 and 8.1-15.

SULFUR DIOXIDE-----0.292(s)* lb/ton asphalt
 VOLATILE ORGANIC COMPOUNDS-----0.028 lb/ton asphalt
 NITROGEN OXIDE-----0.036 lb/ton asphalt
 CARBON MONOXIDE-----0.038 lb/ton asphalt
 *(s) is the percent by weight of sulfur in the fuel

The fugitive dust emission factors are from the RACM book, page 2-465. The combined emission factor is 0.6 lb/ton aggregate. Control efficiencies of 65% for precautions and 70 % for wet/damp material are used. Annual uncontrolled fugitive particulate emission are determined by multiplying the emission factor by the annual tons of aggregate used. The uncontrolled annual emissions are multiplied by the appropriate control efficiency factor (1- control efficiency) to produce the annual pounds per year of controlled fugitive particulate emissions. The annual pounds per year are divided by 2000 to determine the annual controlled tons per year. The annual stack emission is determined by using the particulate emission rate (pounds per hour) from the latest stack test and multiplying by the actual hours of operation. The annual stack emission rate is divided by 2000 to determine the annual tons per year of particulate emissions from the stack. The stack and fugitive emission rates are added to obtain the total particulate emissions for the emissions unit.

F. Miscellaneous Requirements

1. None