

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: P904 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>
P904 - 350 TPH Hot Mix Asphalt Drum Plant - Modification	OAC rule 3745-31-05(A)(3) 14-05537	<p>Particulate Emissions (PE) shall not exceed 8.76 lbs/hr and Particulate Emissions 10 microns and less in diameter (PM10) shall not exceed 2.63 lbs/hr from the fabric filter exhaust when burning gas or oil.</p> <p>Fugitive PE shall not exceed 2.45 lbs/hr. Fugitive PM10 emissions shall not exceed 1.16 lbs/hr.</p> <p>When burning natural gas: Sulfur Dioxide (SO2) emissions shall not exceed 1.2 lbs/hr. Nitrogen Oxide (NOx) emissions shall not exceed 9.1 lbs/hr. Organic Compound (OC) emissions shall not exceed 11.2 lbs/hr. Carbon Monoxide (CO) emissions shall not exceed 45.5 lbs/hr.</p> <p>When burning #2 fuel oil: SO2 emissions shall not exceed 3.85 lbs/hr. NOx emissions shall not exceed 42.0 lbs/hr. OC emissions shall not exceed 11.2 lbs/hr. CO emissions shall not exceed 45.5 lbs/hr.</p> <p>When burning used oil: SO2 emissions shall not exceed 20.3 lbs/hr. NOx emissions shall not exceed 42.0 lbs/hr. OC emissions shall not exceed 11.2 lbs/hr. CO emissions shall not exceed 45.5 lbs/hr.</p> <p>Visible particulate emissions from the stack shall not exceed 10 percent opacity, as a 6-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B), OAC rule 3745-17-08(B), OAC rule 3745-31-05(C), OAC rule 3745-21-08(B) and 40 CFR Part 60, Subpart I.</p>
	40 CFR Part 60, Subpart I	0.04 grains/dry standard cubic foot particulate emissions(see term A.2.a)
	OAC rule 3745-17-08(B)	<p>There shall be no visible emissions of fugitive dust from the enclosures for the hot aggregate elevator(s), vibrating screen(s), and weigh hopper(s).</p> <p>The drop height of the front end loader bucket shall be minimized to the extent possible in order to minimize or eliminate emissions of fugitive dust from the</p>

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.

OAC rules 3745-17-07(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 3745-17-11(B)

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 3745-17-07(B)

The visible emissions of fugitive dust from this emissions unit shall not exceed 20 percent opacity as a 3-minute average.

OAC rule 3745-31-05(C)

The following emissions shall not be exceed based upon a rolling 12-month summation:

- CO emissions shall not exceed 52.0 TPY.
- SO2 emissions shall not exceed 23.2 TPY.
- NOx emissions shall not exceed 48.0 TPY.
- OC emissions shall not exceed 12.8 TPY.
- Stack PE shall not exceed 10.0 TPY.
- Stack PM10 emissions shall not exceed 3.0 TPY.
- Fugitive PE shall not exceed 2.76 TPY.
- Fugitive PM10 emissions shall not exceed 1.32 TPY.

OAC rule 3745-21-08(B)

See term A.2.f.

**2. Additional Terms and Conditions**

- (a) The NSPS limitation of 0.04 gr/dscf is equivalent to the BAT-based limitation of 8.76 lbs/hr from the fabric filter during maximum production. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations, production limitations, use of a fabric filter, maintaining the aggregate in a moist condition and compliance with the NSPS rule. All on spec, used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Specification

- Arsenic 5 ppm, maximum
- Cadmium 2 ppm, maximum
- Chromium 10 ppm, maximum
- Lead 67 ppm, maximum
- PCB's 10 ppm, maximum
- Total Halogens 4000 ppm, maximum
- Mercury 1 ppm, maximum
- Flash Point 100 degrees Fahrenheit, minimum
- Heat Content 135,000 BTU/gallon, minimum
- Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under 40 CFR 266.40(c) and OAC rule 3745-279. Therefore, the permittee may receive and burn used oil exceeding 1000 ppm of total halogens (but less than 4000 ppm, maximum) only if the supplier ["marketer" in 40 CFR 266.43(a)] has demonstrated to the Ohio EPA's Division of Solid and Hazardous Waste Management that the used oil does not contain any hazardous waste.
- All number 2 and on-spec used oil burned in this emissions unit shall have a sulfur content equal to or less than 0.5% by weight.
- The permittee shall satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology (BAT) requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install. The design of the emissions unit and the technology associated with the current operating practices satisfy the BAT requirements.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. On June 24, 2003, the rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP); however, until the U.S. EPA approves the revision to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio. 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. The hourly emission limitations outlined in section A.1. are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.

**B. Operational Restrictions**

- 1. The pressure drop across the baghouse shall be maintained within the range of 1 to 6 inches of water, while the emissions unit is in operation.
- 2. The maximum asphaltic concrete production from this plant shall not exceed 350 tons/hour and 800,000 tons/year based upon a rolling, 12-month summation.
- 3. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials.

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

1. The permittee shall maintain monthly records of the following information:
  - a. the asphalt production rate, in tons for each month;
  - b. the rolling, 12-month summation of the asphalt production rates, in tons; and
  - c. the maximum percentage RAP used for any mix.
2. 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.
3. The permittee may not receive or burn any used oil which does not meet the specifications listed in this permit without first obtaining a permit to install that authorizes the burning of such used oil.
4. The permittee shall receive a chemical analysis with each shipment of used oil from the supplier. The analysis shall identify the name and address of the supplier, the supplier's USEPA identification number, and the following information:
  - a. date of shipment or delivery;
  - b. quantity of used oil received;
  - c. the Btu value of the used oil;
  - d. the flash point of the used oil;
  - e. the arsenic content, in ppm;
  - f. the cadmium content, in ppm;
  - g. the chromium content, in ppm;
  - h. the lead content, in ppm;
  - i. the PCB content, , in ppm;
  - j. the total halogen content, , in ppm; and
  - k. the mercury content, in ppm.

Each analysis shall be kept in a readily accessible location for at least 5 years and shall be made available to the Hamilton County Department of Environmental Services upon verbal or written request. The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the dryer.

The Director or any authorized representative of the Director may require or may conduct periodic, detailed chemical analyses through an independent laboratory of any used oil shipment received by this facility, of any used oil stored at this facility, or of any used oil sampled at the process employing the used oil as fuel, or of any storage tanks at this facility. Additionally, this facility shall provide a plan for documenting that the used oil does not contain any hazardous waste as specified under 40 CFR Parts 261 and 279.

The facility shall notify the USEPA and the Ohio EPA that the used oil being burned exceeds used oil specifications. Before this facility accepts the first shipment of off-specification used oil from a marketer, this facility must provide the marketer a one-time written and signed notice certifying that:

- a. the facility has notified USEPA of its used oil management activities and the notice included the location and description of those activities; and
- b. the facility will burn the used oil only in an industrial furnace or boiler identified in accordance with 40 CFR Part 279.

A copy of each certification notice that this facility sends to a marketer must be kept on file for a minimum of 5 years from the date it last received off-specification used oil from that marketer. The facility shall also submit a copy of each certification notice to the appropriate Ohio EPA District Office.

5. For each number 2 fuel oil and used oil received for burning in emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analysis for sulfur content and heat content.
6. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the enclosures for the hot aggregate elevator, vibrating screens and weigh hopper servicing this emissions unit. If visible particulate emissions are observed, the permittee shall note the following in the operation log:
  - a. the color of the visible particulate emissions;
  - b. the cause of the visible particulate emissions;
  - c. the total duration of the visible particulate emission incident; and
  - d. corrective actions taken to eliminate the visible particulate emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air

agency, modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

7. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any abnormal visible particulate emissions from the stack, aggregate storage bins and cold aggregate elevator/conveyor serving this emissions unit. If abnormal visible emissions are observed, the permittee shall note the following in the operation log:
  - a. the color of the abnormal visible particulate emissions;
  - b. the cause of the abnormal visible particulate emissions;
  - c. the total duration of any abnormal visible particulate emissions incident; and
  - d. any corrective actions taken to eliminate the abnormal visible particulate emissions.

The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency modify the above-mentioned visible particulate emissions check frequency if operating experience indicates that less frequent checks would be sufficient to ensure compliance with the visible particulate emissions requirements.

#### D. Reporting Requirements

1. The permittee shall submit deviation reports which identify all exceedances of the rolling, 12-month asphalt production limitation in term B.2 and the RAP content limit in term B.3.
2. The permittee shall submit pressure drop 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 in term B.1.
3. 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). Approval of the planned relocation must be obtained from the Hamilton County DOES prior to the relocation.
4. The permittee shall submit annual reports which specify the total PM, SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by April 15 of each year.
5. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the specification in term A.2.c and/or OAC rule 3745-279-11. If the permittee burns used oil which exceeds the specifications found in OAC rule 3745-279-11, the permittee is subject to that rule and must comply with all provisions of the rule. The required notification shall be submitted within 30 days of the date in which the exceedance occurred.
6. The permittee shall submit quarterly deviation reports that identify all exceedances of the sulfur content limit in term A.2.e.
7. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:
  - a. identify all days during which any abnormal visible particulate emissions were observed from the stack, aggregate storage bins and cold aggregate elevator/conveyors serving this emissions unit;
  - b. identify all days during which any visible fugitive particulate emissions were observed from the enclosures for the hot aggregate elevator, vibrating screens and weigh hopper;
  - c. describe any corrective actions taken to eliminate the abnormal visible particulate emissions.
8. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### E. Testing Requirements

1. Compliance with the visible particulate emissions limitations shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
2. Emissions Limitations:

Emissions shall not exceed the following:  
 9.1 lbs NO<sub>x</sub>/hr, when burning natural gas  
 42.0 lbs NO<sub>x</sub>/hour, when burning oil  
 1.2 lbs SO<sub>2</sub>/hr, when burning natural gas  
 20.3 lbs SO<sub>2</sub>/hr, when burning oil  
 11.2 lbs OC/hr, when burning gas and oil  
 8.76 lbs PM/hr(stack)  
 2.63 lbs PM<sub>10</sub>/hr(stack)  
 2.45 lbs/hr of PM (fugitive)  
 1.16 lbs/hr of PM<sub>10</sub> (fugitive)  
 45.5 lbs CO/hr, when burning natural gas and oil  
 PE/PM<sub>10</sub> while burning any approved fuel shall not exceed 0.040 gr/dscf.

##### Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. The emission testing shall be conducted within 9 months prior to permit expiration. Emission testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub> for the primary fuel. Prior to secondary fuel emissions testing, the permittee shall consult the appropriate Ohio EPA District Office or local air agency to determine which pollutants should

be tested.

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

PE, Methods 1-5 of 40 CFR Part 60, Appendix A.  
 NOx, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.  
 SO<sub>2</sub>, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A.  
 CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A.  
 VOC, Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A.

The VOC pounds per hour emission rate observed during the emission test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7) where the average molecular weight of the VOC emissions equals 16. i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12. Compliance with the fugitive emission limitations in lbs/hour shall be determined by multiplying the maximum production of 350 Tons/hour by the emission factors from AP-42, Tables 11.12-2 for the fugitive emissions.

3. Emissions Limitations:

The following emissions shall not be exceed based upon a rolling 12-month summation:

CO emissions shall not exceed 52.0 TPY.  
 SO<sub>2</sub> emissions shall not exceed 23.2 TPY.  
 NOx emissions shall not exceed 48.0 TPY.  
 OC emissions shall not exceed 12.8 TPY.  
 Stack PE shall not exceed 10.0 TPY.  
 Stack PM<sub>10</sub> emissions shall not exceed 3.0 TPY.  
 Fugitive PE shall not exceed 2.76 TPY.  
 Fugitive PM<sub>10</sub> emissions shall not exceed 1.32 TPY.

Applicable Compliance Method:

Compliance with the emission limitations in TPY shall be determined by multiplying the annual production rate from term C.1. by the emission factors from AP-42, Tables 11.1-3, 11.1-7 and 11.1-8, 11.1-12 (03/04) and Table 11.12-2 (10/01).

4. Compliance with the annual asphalt production limit in term B.2 shall be demonstrated by the record keeping in term C.1.
5. Compliance with the fabric filter pressure drop limitation in term B.1 shall be demonstrated by the record keeping in term C.2.
6. Compliance with used oil limitations in term A.2.c shall be determined by the record keeping in term C.3.
7. Compliance with sulfur content limitation in term A.2.e shall be determined by the recordkeeping in term C.4.

**F. Miscellaneous Requirements**

1. Notice to Relocate a Portable or Mobile Source

- a. Pursuant to OAC rule 3745-31-03(A)(1)(p)(i), the permittee may relocate a portable emissions unit within the State of Ohio without first obtaining a permit to install (PTI) provided the following criteria are met:
  - i. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO), permit to install (PTI) or registration status;
  - iii. the permittee has provided proper notice of intent to relocate the portable emissions unit to Ohio EPA within a minimum of thirty days prior to the scheduled relocation; and
  - iv. in Ohio EPA's judgment, the proposed site is acceptable under OAC rule 3745-15-07.
    - b. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee may relocate the portable emissions unit within the State of Ohio without first obtaining a PTI provided the following criteria of OAC rule 3745-31-05(F) are met:
      - i. the permittee possesses an Ohio EPA PTI, PTO or registration status for the portable emissions unit;
      - ii. the portable emissions unit is equipped with best available technology;
      - iii. the permittee has identified the proposed site to Ohio EPA;
      - iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
      - v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
      - vi. the owner of the proposed site has provided the permittee with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
      - vii. the permittee has provided Ohio EPA with fifteen days written notice of the relocation.
2. Any site approval issued by Ohio EPA, pursuant to F.1 above, shall be valid for no longer than three years and is subject to renewal.

In order for the Hamilton County Department of Environmental Services and the appropriate Ohio EPA field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee shall file a "Notice of Intent to Relocate," within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Hamilton County Department of Environmental Services (250 William Howard Taft Road, Cincinnati, OH 45219) and the appropriate Ohio EPA field office having jurisdiction over the new site.

Upon receipt of the notice, the Hamilton County Department of Environmental Services and/or appropriate Ohio EPA field office having jurisdiction over the new site will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in civil penalties.

3. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.