

Facility ID: 1409010131 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: 1409010131 Emissions Unit ID: P902 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>   |
|--|--|--|
| 350 TPH Batch Hot Mix Asphalt Plant w/ fabric filter | OAC rule 3745-31-05(A)(3)<br>(PTI 14-4537)   | 9.6 lbs PE/hr (stack), 7 lbs PE/hr (fugitive), 11.9 TPY* PE (total)<br><br>3.8 lbs PM-10/hr (stack), 7 lbs PM-10/hr (fugitive), 7.8 TPY* PM-10 (total)<br><br>119 lbs CO/hr, 85 TPY* CO<br>59.5 lbs NOx/hr, 27.4 TPY* NOx<br>57.6 lbs SO2/hr, 24.5 TPY* SO2<br>16.1 lbs OC/hr, 8.5 TPY* OC<br>0.03 lb Arsenic/hr, 0.014 TPY* Arsenic<br>0.013 lb Cadmium/hr, 0.006 TPY* Cadmium<br>0.07 lb Chromium/hr, 0.03 TPY* Chromium<br>0.7 lb Lead/hr, 0.3 TPY* Lead<br>0.33 lb PCBs/hr, 0.14 TPY* PCBs<br>0.05 lb HCl/hr, 0.02 TPY* HCl<br>0.007 lb Mercury/hr, 0.003 TPY* Mercury |
|  | 40 CFR Part 60 Subpart I   | See Terms A.2  |
|  | OAC rule 3745-17-07(A)(1)  | 0.04 grains PE-PM10/dscf<br>The emissions limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(BAT).  |
|  | OAC rule 3745-17-07(B)(1)  | The emissions limitation established by this rule is the same as that established pursuant to OAC rule 3745-31-05(BAT).  |
|  | OAC rule 3745-17-08  | The emissions limitation established by this rule is less stringent than those established pursuant to OAC rule 3745-31-05(BAT).   |
| OAC rule 3745-17-11(B)(1)                            | The emissions limitation established by this rule is less stringent than those established pursuant to OAC rule 3745-31-05(BAT). |  |

**2. Additional Terms and Conditions**

- (a) All recycled, used oil burned shall meet the following specifications:

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 4000 ppm maximum

mercury 1 ppm, maximum  
 flash point 100 degrees F, 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 Part 266.40(c) and OAC rule 3745-58-50. 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 Part 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.

Visible particulate emissions from any stack shall not exceed 10% percent opacity, as a six-minute average, except as specified by rule.

Visible particulate emissions from any fugitive dust source shall not exceed 20% percent opacity, as a three-minute average, except as specified by rule.

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

**B. Operational Restrictions**

1. To ensure the baghouse is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, the pressure drop across the baghouse shall be maintained within the range of pressure drop in inches of water specified by the manufacturer.
2. The maximum annual production rate shall not exceed 500,000 tons per year based upon a rolling, 12-month summation of the production rates.
3. The maximum annual used oil usage rate shall not exceed 670,000 gallons per year as a rolling, 12-month summation of the used oil usage rates.

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

1. 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 installed, 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 once per shift basis.
2. 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. The date of shipment or delivery.
  - b. The quantity of used oil received.
  - c. The Btu value of the used oil, in BTU/gallon.
  - d. The flash point of the used oil in degrees F.
  - 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.
  - 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.

3. The permittee shall collect and maintain records of the following information each month:
  - a. The monthly production, in tons.
  - b. The monthly used oil usage, in gallons.
  - c. The rolling, 12-month summation of production calculated by adding the current month's production to the production for the preceding eleven calendar months.
  - d. The rolling, 12-month summation of used oil usage calculated by adding the current month's used oil usage to the used oil usage for the preceding eleven calendar months.

**D. Reporting Requirements**

1. The permittee shall furnish the Administrator written notification as follows:
 

A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.
2. 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 in Term B.1.
3. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil specifications. An identification number from USEPA shall be obtained prior to the combustion of any used oil.

Before the permittee accepts the first shipment of any off-specification used oil from a marketer, the permittee must provide the marketer a one-time, written and signed notice certifying that:

a. The company has notified USEPA of its used oil management activities and that the notice included the location and description of those activities.

b. The company will burn the used oil only in an industrial furnace or boiler identified in 40 CFR Part 266.41(b) and OAC rule 3745-58-42.

A copy of each certification notice that the permittee 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.

4. The permittee shall submit annual reports which specify the production rate (in tons), used oil usage (in gallons) and the PM, NOx, SO<sub>2</sub> and CO emissions for the previous calendar year. These reports shall be submitted by January 31 of each year. These reports shall include the rolling, 12-month summation of production rate and used oil usage for each calendar month in the reporting period.

**E. Testing Requirements**

1. Within 6 months prior to expiration of this permit, the permittee shall conduct, or have conducted, an emission tests for this emissions unit in order to demonstrate compliance with the allowable mass emission rate(s) for particulate matter and sulfur dioxide. The particulate matter and sulfur dioxide test(s) shall be conducted in accordance with the test methods and procedures specified in Methods 5 and 6 of 40 CFR Part 60, Appendix A while the emissions unit is operating at or near maximum capacity and using only virgin aggregate and used oil.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and dates(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 field office's refusal to accept the results of the emissions 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 regarding the emissions unit operating parameters.

A comprehensive written report on the results of the emission test(s) shall be submitted within 30 days following completion of the test(s).

2. Compliance with the emissions limits in Term A.1 shall be demonstrated by the record keeping in Terms C.3 and the following emissions factors:

a. When using natural gas, the emissions factors from Compilation of Air Pollution Emissions Factors (AP-42), Tables 11.1-2 and 11.1-7, Fifth Edition.

b. When using used oil, the emissions factors for PM, CO, NO<sub>x</sub> and OC from Compilation of Air Pollution Emissions Factors (AP-42), Tables 11.1-2 and 11.1-7, Fifth Edition.

c. When using used oil, the emissions factors for SO<sub>2</sub> of 71.5 pounds of SO<sub>2</sub> per 1000 gallons of used oil.

3. Compliance with the used oil specifications in Term A.2.a shall be demonstrated by the record keeping in Terms C.2.

4. Compliance with the annual production limitations in Term B.2 and the annual used oil usage limitations in Term B.3 shall be demonstrated by the record keeping in Terms C.3.

5. Compliance with the visible emissions limitations in Terms A.2.b and A.2.c shall be demonstrated by Method 9 and 22, 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

1. None