

Facility ID: 1431400140 Issuance type: Final State Permit To Operate

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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: P908 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>
P908 - 400 ton per hour portable drum mix asphalt plant	OAC rule 3745-31-05(A)(3) PTI 14-05827	Emissions from the fabric filter exhaust vent shall not exceed the following rates: Particulate emissions (PE) shall not exceed 22.9 pounds per hour. Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 7.3 pounds per hour. Volatile organic compound (VOC) emissions shall not exceed 18.7 pounds per hour. Carbon monoxide (CO) emissions shall not exceed 61.5 pounds per hour. Nitrogen oxides (NOx) emissions shall not exceed 22.3 pounds per hour. Sulfur dioxide (SO2) emissions shall not exceed 51.7 pounds per hour. PE/PM10 from plant load-out shall not exceed 0.21 lb/hr and 0.21 ton per year (TPY). VOC emissions from plant load-out shall not exceed 1.66 lbs/hr and 1.66 TPY. CO emissions from plant load-out shall not exceed 0.54 lb/hr and 0.54 TPY. PE/PM10 from silo filling shall not exceed 0.23 lb/hr and 0.23 TPY. VOC emissions from silo filling shall not exceed 4.88 lbs/hr and 4.88 TPY. CO emissions from silo filling shall not exceed 0.47 lb/hr and 0.47 TPY. See terms and conditions A.2.b, A.2.e, A.2.f and B.1 through B.4. The hourly emission limitations outlined are based upon the emissions unit's potential to emit. Therefore,

OAC rule 3745-31-05(C)
Synthetic Minor to Avoid PSD for
Carbon Monoxide emissions and
synthetic minor for Title V
Requirements

no hourly records are required to demonstrate compliance with these limits.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart I, OAC rule 3745-17-07(B), OAC rule 3745-17-08(B), OAC rule 3745-21-08(B) and OAC rule 3745-23-06 (B).

Emissions from the fabric filter exhaust vent shall not exceed the following rates based on rolling, 12 month summations:

Particulate emissions shall not exceed 22.90 TPY.

Particulate emissions 10 microns and less in diameter (PM10) shall not exceed 7.30 TPY.

Volatile organic compound emissions shall not exceed 18.68 TPY.

Carbon monoxide emissions shall not exceed 61.52 TPY.

Nitrogen oxides emissions shall not exceed 22.29 TPY.

Sulfur dioxide emissions shall not exceed 51.68 TPY. The PE shall not exceed 0.04 grain particulate matter per dry standard cubic foot (dscf) of exhaust gas.

40 CFR Part 60 Subpart I

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(A)

See term and condition A.2.a.

OAC rule 3745-17-07(B)

See terms and conditions A.2.c and A.2.d.

OAC rule 3745-17-08(B)

OAC rule 3745-17-11

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 3745-21-08(B)

See term A.2.g.

OAC rule 3745-23-06(B)

See term A.2.h.

2. **Additional Terms and Conditions**

- (a) Visible particulate emissions from any fugitive dust emissions point shall not exceed 20% opacity as a three minute average.
Visible particulate emissions from the fabric filter exhaust stack shall not exceed 20% opacity, as a six minute average.
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 and the transfer point to the dryer.
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.
All recycled, used oil burned in this emissions unit shall meet the following specifications:

Contaminant/Property Allowable Specifications

arsenic 5 ppm, maximum
cadmium 2 ppm, maximum
chromium 10 ppm, maximum
lead 60 ppm, maximum
PCBs 10 ppm, maximum
total halogens 4000 ppm, maximum
mercury 1 ppm, maximum
flash point 100 degrees F, minimum
heat content 135,000 Btu/gal, minimum
sulfur content 0.5%, maximum

Some or all of these used oil specifications exceed the Resource Conservation & Recovery Act Standards of 40 CFR Part 266.40 and OAC rule 3745-58-50, thereby, making the used oil off-specification.

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 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.

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. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). 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 permittee shall satisfy 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 (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 February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, this rule is no longer part of the State regulations. This rule revision was submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Until the U.S. EPA approves the revision to OAC rule 3745-23-06, the requirement to satisfy the "latest 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.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the rolling, 12-month emission limitations, compliance with the rolling, 12-month production limitation, and the use of a fabric filter to control emissions from the dryer.

B. Operational Restrictions

1. To ensure the fabric filter is operated according to the manufacturer's specifications and to maintain compliance with the allowable particulate emission rate, a pressure drop across the fabric filter of not less than 3 or greater than 6 inches of water shall be maintained at all times while the emissions unit is in operation.
2. The maximum annual production rate for this emissions unit shall not exceed 800,000 tons per year, based upon a rolling, 12-month summation of the production rates.
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 may not receive or burn any No. 2 fuel oil and/or used oil which has a sulfur content greater than 0.5%.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the fabric filter 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 fabric filter 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. date of shipment or delivery,
 - b. quantity of used oil received,
 - c. the Btu value of the used oil, in Btu/gal,
 - 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, and
 - l. the sulfur content (%).

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 or any used oil stored at this facility or of any used oil sampled at the dryer.

3. The permittee shall maintain monthly records of the following information for emission unit P908:
 - a. the monthly asphalt production in tons.
 - b. the rolling, 12-month summation of asphalt production calculated by adding the current month's asphalt

production to the asphalt production for the preceding eleven calendar months.

- c. the rolling, 12-month emissions of CO, NOx, SO2, PE, PM10 as calculated in term E.3.
- 4. For each shipment of No. 2 fuel 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.
- 5. The permit to install for this emissions unit P908 was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied to this emissions unit for each toxic pollutant, using data from the permit to install application, and modeling was performed for the toxic pollutant(s) emitted at over a ton per year using the SCREEN 3.0 model or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the use of the SCREEN 3.0 (or other approved) model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: Hydrogen Chloride
 TLV (mg/m3): 7500
 Maximum Hourly Emission Rate (lbs/hr): 3.2
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 4.2
 MAGLC (ug/m3): 179

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a compound or chemical with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled, as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices");
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) meet(s) the definition of a "modification" under other provisions of the rule, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy":

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of the evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable pressure drop range specified in term B.1.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).
- 2. The permittee shall notify the USEPA and the Ohio EPA if any of the used oil exceeds the used oil specifications found in OAC rule 3745-279-11 and/or term A.2.e. If the permittee is burning 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 that rule. The required notification shall be submitted within 30 days of the date in which the exceedance occurred.
- 3. The permittee shall submit quarterly deviation reports that identify all exceedances of the sulfur content limit in term B.4.

If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).

4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify all exceedances of the rolling, 12 month asphalt production limitation in term B.2.
- If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).
5. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling 12-month total PE, PM10, SO2, NOx, VOC and CO emissions limitations.
- If no deviations occurred during the reporting period, the permittee shall state so in the report. The permittee shall submit the reports by January 31, April 30, July 31 and October 31 of each year and shall cover the previous calendar quarters (October through December, January through March, April through June and July through September, respectively).
6. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable source may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable source shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
- a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
- i. the portable source is equipped with the best available technology for such portable source;
 - ii. the portable source is operating pursuant to a currently effective permit to install, permit to operate (PTO), or registration status;
 - iii. the applicant has provided proper notice of the intent to relocate the portable source to the (1.) Ohio EPA District Office or local air agency responsible for the permit(s) for the source and (2.) the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
 - iv. in the judgement of the Ohio EPA District Office or local air agency having jurisdiction over the new site, 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 of a portable source may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
 - i the portable source permittee possesses an Ohio EPA PTI, PTO or registration status;
 - ii. the portable source is equipped with best available technology;
 - iii. the portable source owner has identified the proposed site to Ohio EPA;
 - iv. Ohio EPA has determined that the portable source, 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 portable source owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable source to this proposed site; and
 - vii. the portable source owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the permitting Ohio EPA District Office or local air agency and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable source must file a " Notice of Intent to Relocate" within the specified time frame (30 or 15 days), prior to the relocation of the portable source with the Ohio EPA District Office or local air agency responsible for the permits for the source and the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA District Office or local air agency responsible for the permits for the portable source, and/or appropriate Ohio EPA District Office or local air agency 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 portable source may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

7. 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.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitations:
 PE from the fabric filter exhaust vent shall not exceed 22.9 lbs/hr.
 PM10 from the fabric filter exhaust vent shall not exceed 7.3 lbs/hr.
 VOC emissions shall not exceed 18.7 lbs/hr.
 CO emissions shall not exceed 61.5 lbs/hr.
 NOx emissions shall not exceed 22.3 lbs/hr.
 SO2 emissions shall not exceed 51.7 lbs/hr.

Applicable Compliance Method:
 Compliance with the emission limitations shall be demonstrated by applying the pollutant emission factors in the following equations for each pollutant:

actual asphalt production rate (tons asphalt/hr) x (lb pollutant/ton asphalt) = lb pollutant/hr;
 where: PE emission factor for the fabric filter exhaust vent is 0.05725 lb/ton, based on the NSPS emissions limitation of 0.04 grain per dry standard cubic foot.
 PM10 emission factor for the fabric filter exhaust vent is 30% of PE emissions. 22.9 pounds of PE x 0.3 pound PM10/pound of PE = 6.87 pounds PM10/hr. This amount is less than the allowable amount of 7.3 pound PM10 per hour so this source is in compliance.
 CO emission factor is 0.154 lb/ton, based on 6/2005 stack test data.
 VOC emission factor is 0.047 lb/ton, based on 6/2005 stack test data.
 NOx emission factor is 0.056 lb/ton, based on 6/2005 stack test data.
 SO2 emission factor is 0.129 lb/ton, based on 6/2005 stack test data.
 Note: The emission limitations based on the emissions test data were scaled to maximum plant production capacity and multiplied by 115 percent.
2. Within 12 months of the expiration of this permit to operate, 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 to demonstrate compliance with the allowable PE, CO, NOx, SO2 and VOC emissions rates;
 - b. 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; and
 - c. 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 emission 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.
3. Emission Limitations:
 PE shall not exceed 22.90 TPY.
 PM10 shall not exceed 7.30 TPY.
 VOC emissions shall not exceed 18.68 TPY
 CO emissions shall not exceed 61.52 TPY.
 NOx emissions shall not exceed 22.29 TPY
 SO2 emissions shall not exceed 51.68 TPY.

 Applicable Compliance Method:
 Compliance with the emission limitations shall be demonstrated by applying the pollutant emission factors in the following equations for each pollutant:

 actual asphalt production (tons asphalt/year, rolling, 12-month summation) x pollutant emission factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

 where: PE emission factor for the fabric filter exhaust vent is 0.057 lb/ton, based on the NSPS limit of 0.04 grain per dry standard cubic foot.
 PM10 emission factor for the fabric filter exhaust vent is 0.018 lb/ton, PM10 is 30% of PE.
 CO emission factor is 0.154 lb/ton, based on 6/2005 stack test data.
 VOC emission factor is 0.047 lb/ton, based on 6/2005 stack test data.
 NOx emission factor is 0.056 lb/ton, based on 6/2005 stack test data.
 SO2 emission factor is 0.129 lb/ton, based on 6/2005 stack test data.
4. Emission Limitations:
 The PE from plant load-out shall not exceed 0.21 lb/hr and 0.21 TPY.

The VOC emissions from plant load-out shall not exceed 1.66 lbs/hr and 1.66 TPY.
The CO emissions from plant load-out shall not exceed 0.54 lb/hr and 0.54 TPY.

Applicable Compliance Method:

Compliance with the plant load-out emissions limitations shall be demonstrated by applying the emission factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- a. actual asphalt production rate (tons asphalt/hr) x AP-42 emission factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
 - b. actual asphalt production rate (tons asphalt/yr) x AP-42 emission factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant
- where: PE emission factor is $0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$
VOC emission factor is $0.0172(-V)e^{((0.0251)(T+460)-20.43)}$
CO emission factor is $0.0058(-V)e^{((0.0251)(T+460)-20.43)}$; and
- V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5
T = site-specific asphalt mix temperature, F or default value of 325 F.

5. **Emission Limitations:**

The PE from silo filling shall not exceed 0.23 lb/hr and 0.23 TPY.
The VOC emissions from silo filling shall not exceed 4.88 lbs/hr and 4.88 TPY.
The CO emissions from silo filling shall not exceed 0.47 lb/hr and 0.47 TPY.

Applicable Compliance Method:

Compliance with the silo filling emission limitations shall be demonstrated by applying the emission factors from AP-42, Fifth Edition, Table 11.1-14, 3/2004 in the following equations for each pollutant:

- a. actual asphalt production rate (tons asphalt/hr) x AP-42 emission factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
 - b. actual asphalt production rate (tons asphalt/yr) x AP-42 emission factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant
- where: PE emission factor is $0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$
VOC emission factor is $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$
CO emission factor is $0.00488(-V)e^{((0.0251)(T+460)-20.43)}$; and
- V = site-specific asphalt volatility (percent loss-on-heating) or default value of -0.5
T = site-specific asphalt mix temperature, F or default value of 325 F.

6. **Emission Limitations:**

Visible particulate emissions from any stack associated with emissions unit P908 shall not exceed 20% percent opacity, as a six-minute average.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P908 shall not exceed 20% percent opacity, as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

7. Compliance with the used oil specifications in term A.2.e shall be demonstrated by the record keeping requirements in term C.2.
8. Compliance with the annual asphalt production limitations in term B.2 shall be demonstrated by the record keeping requirements in term C.3.
9. Compliance with the sulfur content limitation in term B.4 shall be demonstrated by the record keeping requirements in term C.4.
10. Compliance with the fabric filter operational requirements in term B.1 shall be demonstrated by the record keeping requirements in term C.1.

F. Miscellaneous Requirements

1. The following terms and conditions of this permit are federally enforceable: A, B, C.1 through C.4, D, and E.