

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: P905 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

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>
P905 - 400 TPH portable drum mix asphalt plant (No. 18) with fabric filter	OAC rule 3745-31-05(A)(3) 14-05654	Particulate emissions (PE) from the fabric filter stack shall not exceed 8.01 pounds per hour. Particulate matter emissions 10 microns and less (PM10) from the fabric filter stack shall not exceed 2.40 lbs per hour. Volatile organic compound (VOC) emissions shall not exceed 12.80 pounds per hour when burning fuel oil. Sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 23.20 pounds per hour when burning waste oil. SO2 emissions from this emissions unit shall not exceed 4.40 pounds per hour when burning No. 2 fuel oil. Nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 22.0 pounds per hour when burning fuel oil. Carbon Monoxide (CO) emissions from this emissions unit shall not exceed 52.0 pounds per hour when burning fuel oil. PE/PM10 from silo filling shall not exceed 0.23 pound per hour. VOC emissions from silo filling shall not exceed 4.88 pounds per hour. CO emissions from silo filling shall not exceed 0.47 pound per hour. PE/PM10 from plant load-out shall not exceed 0.21 pound per hour. VOC emissions from plant load-out shall not exceed 1.66 pounds per hour. CO emissions from plant load-out shall not exceed 0.54 pound per hour. PE/PM10 from silo filling shall not exceed 0.13 TPY. VOC emissions from silo filling shall not exceed 2.75

TPY.
CO emissions from silo filling shall not exceed 0.27
TPY.

PE/PM10 from plant load-out shall not exceed 0.12
TPY.

VOC emissions from plant load-out shall not exceed
0.94 TPY.

CO emissions from plant load-out shall not exceed
0.30 TPY.

See terms A.2.a and A.2.b.
See sections B.1, B.4 and B.6.

The requirements of this rule also include compliance
with the requirements of 40 CFR Part 60 Subpart I,
OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08
(B), OAC rule 3745-35-07(B) and OAC rule 3745-21-
08(B).

OAC rule 3745-35-07(B)
Synthetic Minor to avoid Title V

Allowable emissions shall not exceed the following
based on rolling, 12-month summations:

PE shall not exceed 4.51 TPY.

PM10 shall not exceed 1.35 TPY.

VOC emissions shall not exceed 7.20 TPY.

SO2 emissions shall not exceed 13.05 TPY.
NOx emissions shall not exceed 12.38 TPY.

CO emissions shall not exceed 29.25 TPY.

See section B.3.

40 CFR Part 60 Subpart I
OAC rule 3745-17-07(A)(1)

The PE shall not exceed 0.04 grain/dscf.
The emission limitation specified by this rule is less
stringent than the emission limitation established
pursuant to OAC rule 3745-31-05(A)(3)(BAT).

OAC rule 3745-17-07(B)(1)

Visible particulate emissions of fugitive dust from any
fugitive dust emissions point associated with emissions
unit P905 shall not exceed 20 percent opacity, as a 3-
minute average.

OAC rule 3745-17-08(B)
OAC rule 3745-17-11(B)

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

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.f.

2. **Additional Terms and Conditions**

- (a) All recycled, used oil burned in emissions unit P905 shall meet the following specifications:

Contaminant/Property and 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/gallon, minimum
sulfur content - 0.50%

* If the permittee is burning used oil with any quantifiable level (2ppm) of PCBs, then the permittee is
subject to the notification requirements of 40 CFR 279.62.

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 3745-279. 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 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 associated with emissions unit P905 shall not exceed 10%
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 cold feed bins loading.

The aggregate loaded into the cold feed 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.

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 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 hourly emission limitations outlined in term A.1 are based upon the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limitations.

Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the rolling, 12-month emission limitations, the rolling, 12-month production limitation, the visible emission limitation and the fuel quality specifications and the use of a fabric filter.

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, the pressure drop across the fabric filter shall be maintained within a range of 2 inches of water to 6 inches of water while the emissions unit is in operation.
2. 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.

3. The maximum annual asphalt concrete production rate for emissions unit P905 shall not exceed 450,000 tons per year based upon a rolling, 12-month summation of the production rates. The permittee has existing asphalt concrete production records to verify first year amounts and therefore does not need to be limited the first year.
4. The use of recycled asphalt product (RAP) shall be limited to 50 percent for surface, base, and intermediate mixes.
5. 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.
6. The permittee may not receive or burn any #2 fuel oil and/or used oil which has a sulfur content greater than 0.50 percent.
7. The permittee shall only burn number 2 fuel oil and/or on-spec used oil in this emissions unit. In order to use a fuel on an ongoing basis, the permittee shall complete the emissions testing for that fuel per paragraph E.1.a.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly 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 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 (gallons),
 - c. the Btu value of the used oil (Btu/gallon),
 - d. the flash point of the used oil (oF),
 - e. the arsenic content (ppm),
 - f. the cadmium content (ppm),
 - g. the chromium content (ppm),

- h. the lead content (ppm),
- i. the PCB content (ppm),
- j. the total halogen content (ppm),
- k. the mercury content (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 Director (the appropriate Ohio EPA District Office or local air agency) 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 maintain monthly records of the following information for emissions unit P905:
 - 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 updated rolling, 12-month summation of the actual PE, CO, and VOC emission rates, in tons per rolling, 12-month period, for each month. The summations shall include the information for the current month and the preceding eleven months. The permittee shall calculate the emissions according to the following calculation using the appropriate emission factors:

Actual asphalt production using any fuel type allowed by this permit in the dryer (tons of asphalt produced/year, rolling, 12-month summation) x pollutant emission factor (lb of pollutant/ton of asphalt produced) x 1 ton/2000 lbs = TPY, rolling, 12 month summation.

Where: PE are based on 0.04 grain/dscf times the maximum air flow (23,365 dscf/min) times 60 minutes/hour times 1 pound/ 7000 grains;
PM10 emissions are based on 30% of the PE being PM10 (AP-42 Table 11.1-4);

CO emission factor is 0.13 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004; and

VOC emission factor is 0.032 lb/ton, based on AP-42, Fifth Edition, Table 11.1-8, 3/2004.
 - d. The updated rolling, 12-month summation of the actual NO_x and SO₂ emission rates, in tons per rolling, 12-month period, for each month. The summations shall include the information for the current month and the preceding eleven months. The permittee shall calculate the emissions according to the following calculations using the appropriate emission factors and summing totals:

i. Actual asphalt production using No. 2 oil in the drum dryer burner (tons of asphalt produced/year, rolling, 12-month summation) x pollutant emission factor (lb of pollutant/ton of asphalt produced) x 1 ton/2000 lbs = TPY, rolling, 12 month summation.

Where: NO_x emission factor is 0.055 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004;

SO₂ emission factor is 0.011 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004.

- ii. Actual asphalt production using waste oil in the drum dryer burner (tons of asphalt produced/year, rolling, 12-month summation) x pollutant emission factor (lb of pollutant/ton of asphalt produced) x 1 ton/2000 lbs = TPY, rolling, 12 month summation.

Where: NO_x emission factor is 0.055 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004; and

SO₂ emission factor is 0.058 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004.

- e. The maximum percentage RAP used for any mix.

- 4. For each shipment of #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.

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 quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services which identify each daily record in which the pressure drop across the fabric filter did not comply with the allowable range specified in section B.1. The deviation report shall include a copy of such record.

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).

3. 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.a. 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.
4. The permittee shall submit quarterly reports to the Hamilton County Department of Environmental Services which specify the asphalt production rate (in tons) for the previous calendar quarter. These reports shall include the rolling, 12-month summation of asphalt production rate for each calendar month ending in the reporting period. 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. Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times(if the information has not already been reported):
 - a. Construction date (no later than 30 days after such date);
 - b. Anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
 - c. Actual start-up date (within 15 days after such date); and
 - d. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Hamilton County Department of Environmental Services
250 William Howard Taft Road
Cincinnati, Ohio 45219

6. The permittee shall submit deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the RAP content limit in section 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).
7. The permittee shall submit quarterly deviation reports to the Hamilton County Department of Environmental Services that identify all exceedances of the sulfur content limit in section B.6.

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).
8. The permittee shall submit annual reports which specify the total PE, PM 10, SO₂, NO_x, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
9. 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.

[3745-31-03(A)(1)(p)(i)]

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.

[3745-31-03(A)(1)(p)(i)]

E. Testing Requirements

1. Emission Limitations:

PE shall not exceed 8.01 pounds per hour.
 PE shall not exceed 0.04 grain/dscf.
 PM10 shall not exceed 2.40 lbs per hour.
 VOC emissions shall not exceed 12.80 pounds per hour.
 SO2 emissions shall not exceed 23.20 pounds per hour when burning waste oil.
 SO2 emissions shall not exceed 4.40 pounds per hour when burning No. 2 fuel.
 NOx emissions shall not exceed 22.0 pounds per hour when burning No. 2 fuel or waste oil.
 CO emissions shall not exceed 52.0 pounds per hour.
 Applicable Compliance Methods

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 approximately 2.5 years after permit issuance;
- b. The emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NOx, SO2 and VOC emission rates;
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for PE, 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
- 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.

2. Emission Limitations:

PE/PM10 from silo filling shall not exceed 0.23 pound per hour.
 VOC emissions from silo filling shall not exceed 4.88 pounds per hour.
 CO emissions from silo filling shall not exceed 0.47 pound per hour.
 PE/PM10 from silo filling shall not exceed 0.13 TPY.
 VOC emissions from silo filling shall not exceed 2.75 TPY.
 CO emissions from silo filling shall not exceed 0.27 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 of asphalt produced/hr) x AP-42 emission factor (lb of pollutant/ton of asphalt produced) = lb of pollutant/hr; and
- b. Actual asphalt production rate (tons of asphalt produced/yr) x AP-42 emission factor (lb of pollutant/ton of asphalt produced) x 1 ton/2000 lbs = TPY of pollutant.

Where:

PE emission factor = 0.000586 lb/ton.
 VOC emission factor = 0.0122 lb/ton.
 CO emission factor = 0.00118 lb/ton.
 Silo Filling emissions were calculated as follows:

400 tons/hr (maximum hourly production) x 0.000586 lb of PE/ton of production = 0.23 lb of PE/hr.

400 tons/hr (maximum hourly production) x 0.0122 lb of VOC/ton of production = 4.88 lbs of VOC/hr.

400 tons/hr (maximum hourly production) x 0.00118 lb of CO/ton of production = 0.47 lbs of CO/hr.
450,000 tons/yr (maximum annual production) x 0.000586 lb of PE/ton of production = 0.13 TPY of PE.

450,000 tons/yr (maximum annual production) x 0.0122 lb of VOC/ton of production = 2.75 TPY of VOC.

450,000 tons/yr (maximum annual production) x 0.00118 lb of CO/ton of production = 0.27 TPY of CO.

3. Emission Limitations:

PE/PM10 from plant load-out shall not exceed 0.21 pound per hour.
VOC emissions from plant load-out shall not exceed 1.66 pounds per hour.
CO emissions from plant load-out shall not exceed 0.54 pound per hour.
PE/PM10 from plant load-out shall not exceed 0.12 TPY.
VOC emissions from plant load-out shall not exceed 0.94 TPY.
CO emissions from plant load-out shall not exceed 0.30 TPY.
Applicable Compliance Method:

Compliance with the plant load-out 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 of asphalt produced/hr) x AP-42 emission factor (lb pollutant/ton of asphalt produced) = lb of pollutant/hr; and
- b. Actual asphalt production rate (tons of asphalt produced/yr) x AP-42 emission factor (lb of pollutant/ton of asphalt produced) x 1 ton/2000 lbs = TPY of pollutant.

Where:

PE emission factor = 0.000522 lb/ton.
VOC emission factor = 0.00416 lb/ton.
CO emission factor = 0.004 lb/ton.

Load-out emissions were calculated as follows:

400 tons/hr (maximum hourly production) x 0.000522 lb of PE/ton of production = 0.21 lb of PE/hr.

400 tons/hr (maximum hourly production) x 0.00416 lb of VOC/ton of production = 1.66 lbs of VOC/hr.

400 tons/hr (maximum hourly production) x 0.0014 lb of CO/ton of production = 0.54 lbs of CO/hr.
450,000 tons/yr (maximum annual production) x 0.000522 lb of PE/ton of production = 0.12 TPY of PE.

450,000 tons/yr (maximum annual production) x 0.00416 lb of VOC/ton of production = 0.94 TPY of VOC.

450,000 tons/yr (maximum annual production) x 0.0014 lb of CO/ton of production = 0.30 TPY of CO.

4. Emission Limitations:

Allowable emissions shall not exceed the following based on rolling, 12-month summations:

PE shall not exceed 4.51 TPY.
PM10 emissions shall not exceed 1.35 TPY.
VOC emissions shall not exceed 7.20 TPY.
SO2 emissions shall not exceed 13.05 TPY.
NOx emissions shall not exceed 12.38 TPY.
CO emissions shall not exceed 29.25 TPY.

Applicable Compliance Method:

Compliance with the rolling, 12-month annual emission limitations shall be demonstrated by the record keeping requirements in section C.3.

5. Emission Limitation:

Visible particulate emissions from any stack associated with emissions unit P905 shall not exceed 10% percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

6. Emission Limitation:

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P905 shall not exceed 20% percent opacity, as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), Appendix A, U.S. EPA Reference Method 9.

7. Compliance with the used oil specifications in term A.2.a shall be demonstrated by the record keeping requirements in section C.2.
 8. Compliance with the annual asphalt production limitation in section B.3 shall be demonstrated by the record keeping requirements in section C.3.
 9. Compliance with the sulfur content limitation in section B.6 shall be demonstrated by the record keeping requirements in section C.4.
- F. **Miscellaneous Requirements**
1. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.
 2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.