

Synthetic Minor Determination and/or  Netting Determination

Permit To Install 14-05653

**A. Source Description**

Valley Asphalt Corporation plans to install a 400 TPH drum mix hot mix asphalt plant (Ohio EPA Emissions Unit ID# P902).

**B. Facility Emissions and Attainment Status**

Emissions Unit P902 emits PE, VOC, CO, NO<sub>x</sub>, SO<sub>2</sub> and HAPs. The plant is located in Warren County, Ohio which is designated as non-attainment for ozone, non-attainment for NO<sub>x</sub> for new source review purposes and attainment for all other pollutants.

**C. Source Emissions**

The allowable emissions from P902, pursuant to this modification, are based on rolling, 12-month summations:

PE shall not exceed 6.63 TPY.

PM<sub>10</sub> emissions shall not exceed 2.16 TPY.

VOC emissions shall not exceed 10.89 TPY.

SO<sub>2</sub> emissions shall not exceed 13.05 TPY.

NO<sub>x</sub> emissions shall not exceed 12.38 TPY.

CO emissions shall not exceed 29.84 TPY.

**D. Conclusion**

This Chapter 31 PTI Modification includes Operational Restrictions, Recordkeeping and Monitoring Requirements, Reporting Requirements, and emissions compliance demonstration requirements which will allow the facility to determine compliance with the Synthetic Minor limitations. As a result, Valley Asphalt Corporation's Plant #5 will remain a Synthetic Minor facility with respect to the Part 70 Title V requirements.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
WARREN COUNTY**

**CERTIFIED MAIL**

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.  
Center

**Application No:** 14-05653

**Fac ID:** 1483110113

**DATE:** 1/6/2005

Valley Asphalt Corporation  
Dan Crago  
11641 Mosteller Road  
Cincinnati, OH 45241-0000

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1250** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES

OH-KY-IN Regional Council of Gov.

KY

IN



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 14-05653**

Application Number: 14-05653  
Facility ID: 1483110113  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Valley Asphalt Corporation  
Person to Contact: Dan Crago  
Address: 11641 Mosteller Road  
Cincinnati, OH 45241-0000

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**4850 Stubbs Mill Road  
Morrow, Ohio**

Description of proposed emissions unit(s):  
**Chapter 31 Modification to Emissions Unit P902 to convert batch mix plant to a drum mix plant.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Valley Asphalt Corporation

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**Part I - GENERAL TERMS AND CONDITIONS**

**A. Permit to Install General Terms and Conditions**

**1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

**2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any

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information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may

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lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
PE	6.63
PM10	2.16
VOC	10.89
SO2	13.05
NOx	12.38
CO	29.84

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P902 - Modification - 400 TPH drum mix hot mix asphalt plant with fabric filter	OAC rule 3745-31-05(A)(3)

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		<p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p>
		<p>Particulate emissions (PE) from the fabric filter stack shall not exceed 11.34 pounds per hour.</p>
	40 CFR Part 60 Subpart I	<p>Particulate matter emissions 10 microns and less (PM10) from the fabric filter stack shall not exceed 3.40 lbs per hour.</p>
	OAC rule 3745-17-07(A)(1)	<p>Volatile organic compound (VOC) emissions shall not exceed 12.80 pounds per hour when burning gas or fuel oil.</p>
	OAC rule 3745-17-07(B)(1)	<p>Sulfur dioxide (SO2) emissions from this emissions unit shall not exceed 23.20 pounds per hour when burning waste oil.</p>
	OAC rule 3745-17-08(B)	<p>SO2 emissions from this emissions unit shall not exceed 4.40 pounds per hour when burning No. 2 fuel oil.</p>
OAC rule 3745-35-07(B) Synthetic Minor to avoid Title V	OAC rule 3745-17-11(B)	<p>SO2 emissions from this emissions unit shall not exceed 1.36 pounds per hour when burning natural gas.</p>
	OAC rule 3745-21-08(B)	<p>Nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 22.0 pounds per hour when burning fuel oil.</p>
	OAC rule 3745-23-06(B)	<p>NOx emissions from this emissions unit shall not exceed 10.4 pounds per hour when burning natural gas.</p> <p>Carbon Monoxide (CO) emissions</p>

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Emissions Unit ID: **P902**

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<p>from this emissions unit shall not exceed 52.0 pounds per hour when burning gas or fuel oil.</p>	<p>CO emissions from plant load-out shall not exceed 0.32 TPY.</p>	<p>emission limitation established pursuant to OAC rule 3745-31-05(A)(3)(BAT).</p>
<p>PE/PM10 from silo filling shall not exceed 0.23 pound per hour.</p>	<p>See terms A.2.a. - A.2.d.</p>	<p>The emission limitation specified by this rule is not applicable since the emissions unit is located in a non-Appendix A area.</p>
<p>VOC emissions from silo filling shall not exceed 4.88 pounds per hour.</p>	<p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60 Subpart I, OAC rule 3745-35-07(B), OAC rule 3745-21-08(B), and OAC rule 3745-23-06(B).</p>	<p>The emission limitation specified by this rule is not applicable since the emissions unit is located in a non-Appendix A area.</p>
<p>CO emissions from silo filling shall not exceed 0.47 pound per hour.</p>	<p>Allowable emissions shall not exceed the following based on rolling, 12-month summations:</p>	<p>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).</p>
<p>PE/PM10 from plant load-out shall not exceed 0.21 pound per hour.</p>	<p>PE shall not exceed 6.38 TPY</p>	<p>See term A.2.f</p>
<p>VOC emissions from plant load-out shall not exceed 1.66 pounds per hour.</p>	<p>PM10 shall not exceed 1.91 TPY.</p>	<p>See term A.2.f</p>
<p>CO emissions from plant load-out shall not exceed 0.56 pound per hour.</p>	<p>VOC emissions shall not exceed 7.20 TPY.</p>	
<p>PE/PM10 from silo filling shall not exceed 0.13 TPY.</p>	<p>SO2 emissions shall not exceed 13.05 TPY.</p>	
<p>VOC emissions from silo filling shall not exceed 2.75 TPY.</p>	<p>NOx emissions shall not exceed 12.38 TPY.</p>	
<p>CO emissions from silo filling shall not exceed 0.27 TPY.</p>	<p>CO emissions shall not exceed 29.25 TPY.</p>	
<p>PE/PM10 from plant load-out shall not exceed 0.12 TPY.</p>	<p>See term B.3 The PE shall not exceed 0.04 grain particulate/dscf.</p>	
<p>VOC emissions from plant load-out shall not exceed 0.94 TPY.</p>	<p>The emission limitation specified by this rule is less stringent than the</p>	

**2. Additional Terms and Conditions**

**2.a** All recycled, used oil burned in emissions unit P902 shall meet the following specifications:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
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°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.

**2.b** Visible particulate emissions from any stack associated with emissions unit P902 shall not exceed 10% opacity, as a six-minute average, except as specified by rule.

**2.c** Visible particulate emissions of fugitive dust from any fugitive dust emissions point associated with emissions unit P902 shall not exceed 20 percent opacity, as a 3-minute average.

**2.d** 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

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the dryer.

- 2.e** 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.
- 2.f** The permittee has satisfied 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 requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

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. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions 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 has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

- 2.g** 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 limits.
- 2.h** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the rolling, 12-month emissions limitations, compliance with the rolling, 12-month production limitation, 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 emissions 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 P902 shall not exceed 450,000 tons per year based upon a rolling, 12-month summation of the production rates.

The permittee shall comply with the rolling 12-month production limitation immediately upon startup under this permit based on past records of monthly production.

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

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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.

**C. Monitoring and/or Recordkeeping 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 (gallons),
  - c. the Btu value of the used oil (Btu/gallon),
  - d. the flash point of the used oil (°F),
  - 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 P902:
  - 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 emissions 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 emissions factors:

actual asphalt production using any fuel type in the dryer (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

where: PE emissions are based on 0.04 grains/dscf times the maximum air flow (33,084 dscf/min) times 60 minutes/hour times 1 pound/ 7000 grains

PM10 emissions are based on 30% of the PE emissions being PM10 (AP-42 Table 11.1-4)

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

VOC emissions 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 NOx and SO2 emissions 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 emissions factors and summing totals:
- i. actual asphalt production using natural gas in the drum dryer burner (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation
- where: NOx emissions factor is 0.026 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
- SO2 emissions factor is 0.0034 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004
- ii. actual asphalt production using No. 2 oil in the drum dryer burner (tons asphalt/year, rolling, 12-month summation) x pollutant emissions factor (lb

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pollutant/ton asphalt) x 1 ton/2000 lbs = TPY, rolling, 12 month summation

where: NOx emissions factor is 0.055 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004

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

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

where: NOx emissions factor is 0.055 lb/ton, based on AP-42, Fifth Edition, Table 11.1-7, 3/2004

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

- 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 Term 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

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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:
  - 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:

Ohio Environmental Protection Agency  
DAPC - Permit Management Unit  
P. O. Box 163669  
Columbus, Ohio 43216-3669

and

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

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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 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).

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 term 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, 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 January 31 of each year.

## E. Testing Requirements

### 1. Emission Limitations

PE shall not exceed 11.34 pounds per hour  
PE shall not exceed 0.04 grain particulate/dscf  
PM10 shall not exceed 3.40 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  
SO2 emissions shall not exceed 1.36 pounds per hour when burning natural gas  
NOx emissions shall not exceed 22.0 pounds per hour when burning No. 2 fuel or waste oil  
NOx emissions shall not exceed 10.4 pounds per hour when burning natural gas  
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 within 60 days after achieving maximum production but no later than 180 days after issuance of this permit when burning natural gas. Emission testing for when burning oil shall be conducted within 180 days of firing oil in this emissions unit;
- b. the emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NOx, SO2 and VOC emissions rates;
- c. the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 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
- 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

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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. Emissions Limitations

PE 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 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 emissions limitations shall be demonstrated by applying the emissions 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 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and
- b. actual asphalt production rate (tons asphalt/yr) x AP-42 emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

where: PE emissions factor is  $0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$   
 VOC emissions factor is  $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$

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CO emissions 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.

### 3. Emissions Limitations

#### Applicable Compliance Method

PE 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 0.56 pound per hour

PE 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 0.32 TPY

Compliance with the plant load-out emissions limitations shall be demonstrated by applying the emissions 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 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and

b. actual asphalt production rate (tons asphalt/yr) x AP-42 emissions factor (lb pollutant/ton asphalt) x 1 ton/2000 lbs = TPY pollutant

where: PE emissions factor is  $0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$

VOC emissions factor is  $0.0172(-V)e^{((0.0251)(T+460)-20.43)}$

CO emissions factor is  $0.00558(-V)e^{((0.0251)(T+460)-20.43)}$  ; 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.

### 4. Emissions Limitations

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

PE shall not exceed 6.38 TPY

PM10 emissions shall not exceed 1.91 TPY

VOC emissions shall not exceed 7.20 TPY

SO2 emissions shall not exceed 13.05 TPY

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NOx emissions shall not exceed 12.38 TPY

CO emissions shall not exceed 29.25 TPY

Compliance with the rolling, 12-month annual emissions limitations shall be demonstrated by the recordkeeping requirements in Term C.3.

## 5. Emissions Limitations

Visible particulate emissions from any stack associated with emissions unit P902 shall not exceed 10% percent opacity, as a six-minute average, except as specified by rule.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P902 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"), as such Appendix existed on July 1, 1996.

6. Compliance with the used oil specifications in Term A.2.a. shall be demonstrated by the record keeping requirements in Term C.2.
7. Compliance with the annual asphalt production limitation in Term B.3. shall be demonstrated by the record keeping requirements in Term C.3.
8. Compliance with the sulfur content limitation in term B.6. shall be demonstrated by the record keeping requirements in Term C.4.

**F. Miscellaneous Requirements**

1. This Permit to Install supersedes Permit to Install 14-00962 as issued on August 12, 1987.
2. The following terms and conditions of this permit are federally enforceable: A, B, C, D and E.
3. 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

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above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.