



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
BUTLER COUNTY**

CERTIFIED MAIL

Street Address:

50 West Town Street, Suite 700

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

Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 14-05759

Fac ID: 1409030042

DATE: 1/25/2007

Mt Pleasant Blacktop Incorporated
Ben House
3199 Production Drive
Fairfield, OH 45014

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

Sincerely,

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

CC: USEPA

HCDES



Permit To Install
Terms and Conditions

Issue Date: 1/25/2007
Effective Date: 1/25/2007

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 14-05759

Application Number: 14-05759
Facility ID: 1409030042
Permit Fee: **\$625**
Name of Facility: Mt Pleasant Blacktop Incorporated
Person to Contact: Ben House
Address: 3199 Production Drive
Fairfield, OH 45014

Location of proposed air contaminant source(s) [emissions unit(s)]:

**3199 Production Drive
Fairfield, Ohio**

Description of proposed emissions unit(s):

Administrative Modification of PTI 14-05759 to Modify Drum Mix Plant P903 Capacity and Emissions Based on Stack Test Data.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Laura Powell
Acting Director

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 (i.e., postmarked) quarterly 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

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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 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)

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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 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.

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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.

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>
CO	21.28
NOx	10.3
SO2	1.4
VOC	9.83
PE	2.67
PM10	2.67

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>
P903 - ASTEC Parallel Flow Drum Mix Asphalt Plant - <i>Modification</i>	OAC rule 3745-31-05(A)(3)

		<p style="text-align: center;"><u>Applicable Emissions Limitations/Control Measures</u></p>
	<p>OAC rule 3745-17-07(B)(1)</p>	<p>When burning natural gas or No. 2 fuel oil in the drum dryer burner:</p> <p>Particulate emissions (PE) from the fabric filter stack shall not exceed 3.5 pounds per hour.</p>
<p>OAC rule 3745-31-05(C) Synthetic Minor to avoid PSD, non-attainment review (for the 8-hour ozone standard and PM2.5), and Title V requirements.</p>	<p>OAC rule 3745-17-08(B) OAC rule 3745-17-11(B)</p>	<p>The PE shall not exceed 0.04 grain particulate/dry standard cubic foot (dscf).</p> <p>Particulate matter emissions 10 microns and less in diameter (PM10) from the fabric filter stack shall not exceed 3.5 pounds per hour.</p>
	<p>OAC rule 3745-18-06(E)</p>	<p>Volatile organic compound (VOC) emissions shall not exceed 10.2 pounds per hour.</p>
	<p>OAC rule 3745-21-08(B)</p>	<p>Sulfur dioxide (SO₂) emissions from this emissions unit shall not exceed 2.0 pounds per hour.</p>
	<p>40 CFR Part 60 Subpart I</p>	<p>Nitrogen oxide (NO_x) emissions from this emissions unit shall not exceed 14.3 pounds per hour.</p>
		<p>Carbon Monoxide (CO) emissions from this emissions unit shall not exceed 29.0 pounds per hour.</p>
<p>OAC rule 3745-17-07(A)(1)</p>		<p>PE/PM10 from silo filling shall not exceed 0.12 pound per hour.</p>

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Emissions Unit ID: **P903**

VOC emissions from silo filling shall not exceed 2.52 pounds per hour.

CO emissions from silo filling shall not exceed 0.24 pound per hour.

PE/PM10 from plant load-out shall not exceed 0.11 pound per hour.

VOC emissions from plant load-out shall not exceed 0.86 pound per hour.

CO emissions from plant load-out shall not exceed 0.28 pound per hour.

See terms A.2.b. , B.1, B.3, B.4, and B.6.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1), OAC rule 3745-17-08(B), OAC rule 3745-21-08(B), OAC rule 3745-23-06(B) and OAC rule 3745-31-05(C).

Allowable emissions from the fabric filter stack, silo filling, and loadout combined, shall not exceed the following based on rolling, 12-month summations:

PE shall not exceed 2.67 TPY

PM10 emissions shall not exceed 2.67 TPY.

VOC emissions shall not exceed 9.83 TPY.

SO2 emissions shall not exceed 1.4 TPY.

NOx emissions shall not exceed 10.3 TPY.

CO emissions shall not exceed 21.28 TPY.

See term B.2.

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).

Visible particulate emissions of fugitive dust from any fugitive dust emissions point associated with emissions unit P903 shall not exceed 20 percent opacity, as a 3-minute average.

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).

The emission limitation specified

by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See term A.2.e.

The emissions limitations specified by this rule are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

See term A.2.f.

2. Additional Terms and Conditions

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the emission limitations, production limitations, use of a fabric filter and compliance with 40 CFR Part 60 Subpart I.
- 2.b** Visible particulate emissions from any stack associated with emissions unit P903 shall not exceed 10% percent opacity, as a six-minute average.
- 2.c** 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 and recycled material (RAP) bin.
- 2.d** The aggregate loaded into the cold feed bins and recycled material (RAP) bin shall have a moisture content sufficient to eliminate the visible emissions of fugitive dust from the elevator and the transfer point to the dryer.
- 2.e** 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 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. This rule revision to Ohio's State Implementation Plan (SIP). Until 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.

- 2.f** 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.

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 the range of 2.0 to 6.0 inches of water while the emissions unit is in operation.
- 2. The maximum annual asphalt production rate for emissions unit P903 shall not exceed

288,000 tons per year based upon a rolling, 12-month summation of the production rate. The permittee has existing records to demonstrate compliance with the rolling, 12-month limitation upon issuance of this permit, therefore first year monthly production limitations are not necessary.

3. The use of recycled asphalt product (RAP) shall be limited to 50 percent for surface, base, and intermediate mixes.
4. The permittee may not receive or burn any #2 fuel oil which has a sulfur content greater than 0.50 percent.
5. The permittee is allowed only to burn natural gas and number #2 fuel oil in this emissions unit. If other fuels are to be burned in this emissions unit, then the permittee shall submit notification and a possible air permit-to-install application to be allowed to burn those other fuels to the Hamilton County Department of Environmental Services before burning those other fuels in this emissions unit.
6. The maximum hourly asphalt production rate for this emissions unit shall not exceed 200 tons per hour, unless the permittee demonstrates, to the satisfaction of the Hamilton County Department of Environmental Services, compliance with the emission limitations in this permit by stack testing at a higher production rate. In such case, the maximum hourly asphalt production rate for this emissions unit shall be the average rate of production during such stack test.

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 maintain hourly production records of the amount of asphalt produced by this emissions unit, in tons.
3. The permittee shall maintain monthly records of the following information for emissions unit P903:

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Emissions Unit ID: P903

- 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 maximum percentage RAP used in any mix; and
 - d. the updated rolling, 12-month summation emissions total, in tons, for NO_x, CO, VOC, PE/PM₁₀, and SO₂ for this emissions unit (the total amount of emissions for the current month plus the total amount of emissions for the previous eleven calendar months) calculated using the most recent stack test data and AP-42 emission factors identified in term and condition E.1 and the asphalt production, in tons, recorded pursuant to term and condition C.3.b above.
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.
 5. The permit to install for this emissions unit P903 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: Heptane

TLV (ug/m³): 1,639,000

Maximum Hourly Emission Rate (lbs/hr): 1.88

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 30.43

MAGLC (ug/m³): 39,023

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

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- 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 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 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 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).

3. 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:

Hamilton County Department of Environmental Services

250 William Howard Taft Road
Cincinnati, Ohio 45219

4. The permittee shall submit deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the hourly production rate 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).

5. 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.3.

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. The permittee shall submit deviation reports to the Hamilton County Department of Environmental Services 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).

7. The permittee shall submit annual reports which specify the total PE, PM10, SO2, NOx, VOC and CO emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
8. Deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

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Facility ID: 140903004

Emissions Unit ID: P903

E. Testing Requirements

1. Compliance with the emissions limitations in term and condition A.1. shall be determined in accordance with the following methods:

- a. Emission Limitations (Drum Dryer - Fabric Filter Stack):

PE shall not exceed 3.5 pounds per hour
PE shall not exceed 0.04 grains of particulate/dscf
PM10 shall not exceed 3.5 lbs per hour
VOC emissions shall not exceed 10.2 pounds per hour
SO₂ emissions shall not exceed 2.0 pounds per hour
NO_x emissions shall not exceed 14.3 pounds per hour
CO emissions shall not exceed 29.0 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:

- i. The emission testing shall be conducted within 60 days after achieving maximum production but no later than 180 days after issuance of this permit;
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable PE, CO, NO_x, SO₂, and VOC emissions rates;
- iii. 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 NO_x emissions, Method 7; for VOC emissions, Method 25; for SO₂ emissions, Method 6. 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
- iv. 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.

Compliance with the PM₁₀ emissions limitation shall be demonstrated by compliance with the PE limitation. If required, the permittee shall demonstrate compliance with the PM₁₀ emissions limitation through emission tests performed in accordance with 40 CFR Part 51, Appendix M, Method 201.

b. Emissions Limitations:

PE/PM₁₀ from silo filling shall not exceed 0.12 pound per hour
VOC emissions from silo filling shall not exceed 2.52 pounds per hour
CO emissions from silo filling shall not exceed 0.24 pound per hour

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:

- i. Actual asphalt production rate (tons asphalt/hr) x AP-42 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and

- ii. 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 $0.0504(-V)e^{((0.0251)(T+460)-20.43)}$
 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.

- c. Emissions Limitations:

PE/PM₁₀ from plant load-out shall not exceed 0.11 pound per hour

VOC emissions from plant load-out shall not exceed 0.86 pound per hour

CO emissions from plant load-out shall not exceed 0.28 pounds per hour

Applicable Compliance Method:

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:

- i. Actual asphalt production rate (tons asphalt/hr) x AP-42 emissions factor (lb pollutant/ton asphalt) = lb pollutant/hr; and

- ii. 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.

- d. Emissions Limitations:

Allowable emissions from this emissions unit (drum dryer, silo filling and load-out combined) shall not exceed the following based on rolling, 12-month summations:

PE shall not exceed 2.67 TPY
PM10 emissions shall not exceed 2.67 TPY
VOC emissions shall not exceed 9.83 TPY

SO₂ emissions shall not exceed 1.4 TPY
NO_x emissions shall not exceed 10.3 TPY
CO emissions shall not exceed 21.28 TPY

Compliance with the rolling, 12-month annual emissions limitations shall be demonstrated by the record keeping requirements in Term C.2 using the following equations:

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

Where: the pollutant emissions factor is based on the most recent stack test for the pollutant (in lbs/hr) divided by the plant operating capacity (in tons/hour)

The plant load-out and silo filling PE, PM10, CO, and VOC emissions shall be added to the drum dryer burner emissions to determine compliance with the total rolling 12-month summation of pollutant emissions for the drum mix asphalt plant. The methods for determining these emissions using actual asphalt production and AP-42 emission factors is provided above in terms E.1.b and E.1.c.

e. Emissions Limitations:

Visible particulate emissions from any stack associated with emissions unit P903 shall not exceed 10% percent opacity, as a six-minute average.

Visible particulate emissions from any fugitive dust emissions point associated with emissions unit P903 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.")

2. Compliance with the asphalt production limitations in Terms B.2, B.3, and B.6 shall be demonstrated by the record keeping requirements in Term C.2.
3. Compliance with the sulfur content limitation in term B.4 shall be demonstrated by the record keeping requirements in Term C.3.

F. Miscellaneous Requirements

1. If probable cause exists indicating the source is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3745-15-07, the owner or operator of this emissions unit shall be required to submit and implement a control program which will bring this source into compliance.
2. The terms and conditions of this PTI supersede the terms and conditions established in PTI 14-05759, issued on November 25, 2005.
3. The following terms and conditions of this permit are federally enforceable: A., B., C.1 through C.4 , D. and E.