

Synthetic Minor Determination and/or Netting Determination

Permit To Install: 14-05959

A. Source Description

New portable counter-flow drum mix hot mix asphalt (HMA) facility (emissions unit P901).

B. Facility Emissions and Attainment Status

Emissions from emission unit P901 will include CO, NO_x, SO₂, VOC and stack and fugitive PE/PM₁₀ where PE = particulate emissions, PM₁₀ = particulate emissions with diameter equal to or less than 10 microns, NO_x = nitrogen oxides, SO₂ = sulfur dioxide and VOC = volatile organic compounds. Warren County is designated non-attainment for ozone and PM_{2.5} and is attainment for all other pollutants.

C. Source Emissions

Facility Emissions

Federally Enforceable potential to emit (PTE),
prior to any restrictions in tons per year (TPY)
Restrictions (TPY)

<u>PE</u>	<u>PM10</u>	<u>CO</u>	<u>NO_x</u>	<u>SO₂</u>	<u>VOC</u>
59.98	57.76	262.80	92.86	115.63	175.20

Federally Enforceable PTE, after Synthetic Minor

<u>PE</u>	<u>PM10</u>	<u>CO</u>	<u>NO_x</u>	<u>SO₂</u>	<u>VOC</u>
11.69	9.47	45.76	15.90	19.80	34.76

D. Conclusion

The permittee has proposed to limit the HMA production from this facility, limiting the PTE through rolling, 12-month restrictions such that the PTE CO, SO₂ and VOC do not exceed the Title V Major Stationary Source emission threshold levels, designating the facility as a Synthetic Minor and avoiding the Part 70 Title V requirements. The facility will also be synthetic minor for Prevention of Significant Deterioration for CO and for Non-attainment New Source Review for VOC.



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

Mailing Address:

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

Lazarus Gov.
Center

Application No: 14-05959

Fac ID: 1483980486

DATE: 10/16/2007

Barrett Paving Materials, Inc.
Andy Brockhaus
600 Shepherd Avenue
Cincinnati, OH 45215-0000

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, 43216-1049.

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, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

HCDES

OH-KY-IN REG COUNCIL OF GOVTS

IN

KY

WARREN COUNTY

PUBLIC NOTICE
ISSUANCE OF DRAFT PERMIT TO INSTALL **14-05959** FOR AN AIR CONTAMINANT SOURCE
FOR **Barrett Paving Materials, Inc.**

On 10/16/2007 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Barrett Paving Materials, Inc.**, located at **1466 West Mason Morrow Millgrove Road, South Lebanon, Ohio.**

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 14-05959:

Installation of a new 400 TPH portable counter-flow drum mix HMA plant with fabric filter.

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Brad Miller, Hamilton County Department of Environmental Services, 250 William Howard Taft Pkwy, Cincinnati, OH 45219-2660 [(513)946-7777]



**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 14-05959

Application Number: 14-05959
Facility ID: 1483980486
Permit Fee: **To be entered upon final issuance**
Name of Facility: Barrett Paving Materials, Inc.
Person to Contact: Andy Brockhaus
Address: 600 Shepherd Avenue
Cincinnati, OH 452150000

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1466 West Mason Morrow Millgrove Road
South Lebanon, Ohio**

Description of proposed emissions unit(s):
Installation of a new 400 TPH portable counter-flow drum mix HMA plant with fabric filter.

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

Chris Korleski
Director

Barrett Paving Materials, Inc.

Facility ID: 1483980486

PTI Application: 14-05959

Issued: To be entered upon final issuance

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 the premises of this source at any reasonable time for purposes of making inspections,

Barrett Paving Materials, Inc.

Facility ID: 1483980486

PTI Application: 14-05959

Issued: To be entered upon final issuance

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)

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

Barrett Paving Materials, Inc.

Facility ID: 1483980486

PTI Application: 14-05959

Issued: To be entered upon final issuance

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

Barrett Paving Materials, Inc.

Facility ID: 1483980486

PTI Application: 14-05959

Issued: To be entered upon final issuance

Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

Barrett Paving Materials, Inc.

Facility ID: 1483980486

PTI Application: 14-05959

Issued: To be entered upon final issuance

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>
PE	11.69
PM10	9.47
CO	45.76
NOx	15.90
SO2	19.80
VOC	34.76

Issued: To be entered upon final issuance

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.

Operations, Property, and/or Equipment - (P901) - Portable counter-flow drum mix asphalt plant with a maximum design capacity 400 tons per hour, controlled with a baghouse and a low NOx burner (ie. one that is designed to meet the NOx emission limits listed in the permit).

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
--------------------------------------	--

<p>OAC rule 3745-31-05(A)(3)</p>	<p><u>Stack Emissions</u></p> <p>Nitrogen oxides (NOx) emissions while burning natural gas shall not exceed 0.029 pound per ton of asphalt produced.</p> <p>NOx emissions while burning on-spec used oil or number 2 fuel oil shall not exceed 0.053 pound per ton of asphalt produced.</p> <p>Sulfur dioxide (SO₂) emissions while burning natural gas shall not exceed 0.011 pound per ton of asphalt produced.</p> <p>SO₂ emissions while burning on-spec used oil or number 2 fuel oil shall not exceed 0.066 pound per ton of asphalt produced.</p> <p>Carbon monoxide (CO) emissions while burning any approved fuel shall not exceed 0.15 pound per ton of asphalt produced.</p> <p>Volatile organic compound (VOC) emissions while burning any approved fuel shall not exceed 0.10 pound per ton of asphalt produced.</p> <p>Particulate emissions (PE) while burning any approved fuel shall not exceed 0.03 grain (gr)/dry standard cubic feet (dscf).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C) and 40 CFR Part 60, Subpart I.</p> <p>See terms and conditions A.2.a through A.2.j below.</p>
<p>OAC rule 3745-21-08(B)</p>	<p>See term and condition A.2.m below.</p>

Issued: To be entered upon final issuance

OAC rule 3745-31-05(C)
Synthetic minor to avoid
Prevention of Significant
Deterioration, Nonattainment
New Source review and Title
V

Stack Emissions

NOx emissions shall not exceed 15.90 tons per rolling, 12-month period.

SO2 emissions shall not exceed 19.80 tons per rolling, 12-month period.

CO emissions shall not exceed 45.00 tons per rolling, 12-month period.

VOC emissions shall not exceed 30.00 tons per rolling, 12-month period.

PE/PM10 shall not exceed 7.12 tons per rolling, 12-month period.

Asphalt Load Out Emissions

CO emissions shall not exceed 0.41 ton per rolling, 12-month period.

VOC emissions shall not exceed 1.17 tons per rolling, 12-month period.

PE/PM10 shall not exceed 0.16 ton per rolling, 12-month period.

Asphalt Silo Filling Emissions

CO emissions shall not exceed 0.35 ton per rolling, 12-month period.

VOC emissions shall not exceed 3.61 tons per rolling, 12-month period.

PE/PM10 shall not exceed 0.18 ton per rolling, 12-month period.

Cold End Fugitive Dust Emissions

Fugitive PE/PM10 emissions associated with the cold aggregate, sand and RAP loading, and the cold aggregate, sand and RAP transfer operations shall not exceed 4.23 tons per rolling, 12-month period for PE and 2.01 tons per rolling, 12-month period for PM10.

Issued: To be entered upon final issuance

OAC rule 3745-31-05(C) To avoid OAC rule 3745-31-05(A)(3). That is, BAT.	See term and condition A.2.n below.
OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(B) This rule is applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08.	When applicable, 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 and condition A.2.h.i.
OAC rule 3745-17-08(B) This rule is applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08.	When applicable, 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 and condition A.2.h.ii.
OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-18-06(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 60, Subpart I §60.92(a)(1) §60.92(a)(2)	The emission limitations specified by 40 CFR Part 60, Subpart I are less stringent than the emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-279-11	See term and condition A.2.g.

2. Additional Terms and Conditions

- 2.a** 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 aggregate storage bins.
- 2.b** The aggregate loaded into the cold aggregate bins shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from conveyors and all transfer points to the dryer.

Emissions Unit ID: P901

- 2.c** There shall be no visible emissions of fugitive dust from the enclosures for the rotary drum and the hot mix asphalt elevator.
- 2.d** Visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) shall be less than or equal to 10 per cent opacity, as a 3-minute average.
- 2.e** Visible particulate emissions from the stack shall not exceed 10 per cent opacity, as a six-minute average.
- 2.f** All number 2 and "on-specification" (on-spec) used oil burned in this emission unit shall have a sulfur content equal to or less than 0.5 per cent, by weight.
- 2.g** All used oil burned in this emissions unit shall be on-spec oil and must meet the used oil fuel specifications contained in OAC 3745-279-11, which restricts the used oil to the following limitations:

<u>Contaminant/Property</u>	<u>Allowable Specifications</u>
arsenic	5 ppm, maximum
cadmium	2 ppm, maximum
chromium	10 ppm, maximum
lead	100 ppm, maximum
total halogens	4,000 ppm maximum*
flash point	100°F, minimum

The used oil burned in this emissions unit shall contain less than the quantifiable levels of PCBs as defined in 40 CFR 761.3; and shall also not exceed the following mercury limitation nor fall below the following heating value:

PCB's	less than 2 ppm
heat content	135,000 Btu/gallon, minimum
mercury	1 ppm, maximum

* Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under paragraph (B)(1) of rule 3745-279-10 of the Administrative Code. The permittee may receive and burn used oil exceeding 1,000 ppm total halogens (but less than 4,000 ppm maximum) only if the permittee has demonstrated that the used oil does not contain any hazardous waste pursuant to OAC rule 3745-279-10(B).

The burning of used oil not meeting the above limitations is prohibited in this

Issued: To be entered upon final issuance

emissions unit. The management and burning of used oil is subject to the Standards for the Management of Used Oil, OAC Chapter 3745-279, and the permittee shall document and assure that used oils burned in this emissions unit meet all of the applicable requirements of this Chapter.

- 2.h** Based on the information in PTI Application 14-05959, submitted by the permittee in July 30, 2007, regarding the initial location of the portable plant:
- i. this emissions unit is exempt from the visible particulate emission limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08; and
 - ii. this emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08, therefore, the requirements of OAC rule 3745-17-08(B), which requires the installation of reasonably available control measures to prevent fugitive dust, do not apply to this emissions unit pursuant to OAC rule 3745-17-08(A)(1).
- 2.i** At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) providing the appropriate notification and exemption requirements have been met. The director may issue a "Notice of Site Approval" through either of the following scenarios:
- i. If future location(s) of the proposed portable source are unknown, the approval to relocate the portable source shall be in acquired in accordance with OAC rule 3745-31-03(A)(1)(p)(i) and the following criteria shall be met:
 - (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;
 - (b). the portable source is operating pursuant to a currently effective PTI and/or a current permit to operate (PTO) and continues to comply with the requirements of the permit and any applicable state and/or federal rules;
 - (c). the permittee has provided a minimum of 30 days notice of the

Emissions Unit ID: **P901**

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 that 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; or

- b. Pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the director may issue a "Notice of Site Approval" for any pre-disclosed location(s) if the portable source meets the requirements of OAC rule 3745-31-05(E), as follows:
 - (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;
 - (b). the portable source is operating pursuant to a currently effective PTI and/or a current permit to operate (PTO) and continues to comply with the requirements of the permit and any applicable state and/or federal rules;
 - (c). the permittee has identified the proposed site(s) to the permitting District Office or local air agency;
 - (d). the permitting District Office/local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);

Issued: To be entered upon final issuance

- (e). a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site(s) is/are located;
- (f). the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s); and
- (g). the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

The portable source can be relocated upon receipt of the director's "Notice of Site Approval" for the site. Any site approval(s) issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal. Pursuant to OAC rule 3745-31-05(F), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- 2.j** 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.

Emissions Unit ID: P901

- 2.k** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a baghouse controlling the PE from the drum, compliance with the short-term emissions limitations, compliance with the rolling, 12-month operational restriction, compliance with the rolling, 12-month emissions limitations, compliance with the visible emissions limitations, and compliance with the operational restrictions regarding the use of used oil, maintenance of the fuel burner, use of RAP and latex, and fuel restrictions.
- 2.l** The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency (U.S. EPA), 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency (Ohio EPA).
- 2.m** 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.
- 2.n** Permit to install 14-05959 for this air contaminant source takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purposes of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) for the pollutant PM10:
- i. compliance with 0.03 grain (gr)/dry standard cubic feet (dscf); and
 - ii. see term B.2.

B. Operational Restrictions

1. The permittee may not receive or burn any used oil which does not meet the

Issued: To be entered upon final issuance

specifications listed in A.2.g of this permit without first obtaining a permit-to-install that authorizes the burning of off-specification used oil. The burning of off-specification used oil is subject to OAC rule 3745-279-60 through 67.

2. The permittee has requested a federally enforceable limitation on asphalt produced in order to restrict the federally enforceable potential to emit. The total amount of asphalt produced using any fuel is limited to 600,000 tons per rolling 12-month period. To ensure enforceability during the first 12 calendar months of operation following the initial startup of this emissions unit, the permittee shall not exceed the production levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Production (Tons)</u>
1	145,000
1-2	300,000
1-3	435,000
1-4	600,000
1-5	600,000
1-6	600,000
1-7	600,000
1-8	600,000
1-9	600,000
1-10	600,000
1-11	600,000
1-12	600,000

After the first 12 calendar months of operation or the first 12 calendar months following the initial startup of this emissions unit, compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the production rates.

3. The permittee shall operate and maintain the fuel burner in accordance with the manufacturer's recommendations to ensure efficient combustion of the fuel(s) and to ensure compliance with the applicable emission limitations.
4. The permittee may substitute reclaimed asphalt pavement (RAP) in the raw material feed mix in amounts not to exceed 50 percent of all aggregate materials on an hourly basis. The permittee may substitute latex in the raw material feed mix in amounts not to exceed 6 percent of all aggregate materials on an hourly basis. The permittee may not substitute raw materials for the aggregate such as shingles, slag, rubber, etc. without prior approval from Ohio EPA.

Emissions Unit ID: P901

5. The permittee shall only burn natural gas, 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 Recordkeeping Requirements

1. The permittee shall receive and maintain the chemical analyses from the supplier/marketer for each shipment of used oil burned in this emissions unit, which shall contain the following information:
 - a. the date the used oil was received at the facility;
 - b. the name, address, and U.S. EPA identification number (if applicable) of the generator, transporter, processor/re-finer, supplier, and/or marketer;
 - c. the results of the chemical analyses demonstrating that the used oil meets the standards in OAC 3745-279-11 and does not contain quantifiable levels of PCBs:
 - i. arsenic content, in ppm;
 - ii. the cadmium content, in ppm;
 - iii. the chromium content, in ppm;
 - iv. the lead content, in ppm;
 - v. total halogens, in ppm;
 - vi. the PCB content, in ppm; and
 - vii. the flash point
 - d. the analysis demonstrating that the used oil has a total halogen content below 1,000 ppm, or below 4,000 ppm with the demonstration for the rebuttal of the presumption that the oil is hazardous waste or has been mixed with hazardous waste, as described in OAC rule 3745-279-10(B); and
 - e. the results of the analyses demonstrating that the used oil meets the heating value and mercury limitation contained in this permit.

The metal contents for arsenic, cadmium, chromium, lead, and mercury shall be analyzed using a "Totals Analysis" or Total Metals" testing methodology, Chapter Two of "Testing Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)" should be referenced to for selecting appropriate test methods for the used oil analyses. Under no circumstances shall the metal contents of the used oil be analyzed

Issued: To be entered upon final issuance

using "TCLP", "EP-TOC", or other similar testing procedures, since these tests were developed to gauge leachate mobility from a landfill, of which is an irrelevant property of the used oil burned for energy recovery.

Each analysis shall be kept in a readily accessible location for a period of not less than 5 years following the receipt of each shipment of used oil and shall be made available to the Ohio EPA Division of Hazardous Waste Management and/or the Division of Air Pollution Control (the appropriate Ohio EPA District Office or local air agency) upon verbal or written request. Any authorized representative of the Ohio EPA may sample or require sampling of any used oil shipments received, stored, or burned by/at this facility for periodic detailed chemical analyses, through an independent laboratory.

2. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the pressure drop in inches of water, across the baghouse, during operation of this emissions unit, including periods of startup and shutdown. 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 in inches of water, across the baghouse on a daily basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

0.5 to 8 inches of water while the emissions unit is in operation

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of an administrative modification.

3. The permittee shall maintain monthly records of the following information:
 - a. the total asphalt production for each month;
 - b. the total asphalt produced for each fuel type for each month;
 - c. for the first 12 calendar months following the initial startup of this emissions unit, the cumulative asphalt production, and asphalt production by fuel type, calculated by adding the current month's asphalt production to the asphalt production for each calendar month since the startup of emissions unit P901;
 - d. beginning after the first 12 calendar months following the startup of this emissions unit, the rolling, 12 month summation of the total asphalt production, and asphalt production by fuel type, calculated by adding the current month's asphalt production to the asphalt production for the preceding eleven calendar months;
 - e. the rolling, 12-month summation of the PE, PM10, SO₂, NO_x, VOC and CO emissions; and
 - f. the maximum percentage of RAP and/or other substitute/additive used for any mix type.
4. For each shipment of number 2 fuel oil and on-spec used 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 permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also

Issued: To be entered upon final issuance

note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

6. The permittee shall perform daily visible emission checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the enclosures for the rotary drum and the hot mix asphalt elevator serving this emissions unit. If visible emissions are observed, the permittee shall note the following in the operation log:
 - a. the location and color of the visible emissions;
 - b. the cause of the visible particulate emissions;
 - c. the total duration of any visible emissions incident; and
 - d. any corrective actions taken to minimize or eliminate the visible emissions.
7. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

Emissions Unit ID: P901

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. Reporting Requirements

1. The permittee shall submit quarterly reports to the Hamilton County Department of Environmental Services that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:
 - a. each period of time when the pressure drop across the baghouse was outside of the range specified by the manufacturer;
 - b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;
 - c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
 - d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

Issued: To be entered upon final issuance

2. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the rolling 12-month asphalt production limitation, and, for the first 12 calendar months of operation following the startup of this emissions unit, all exceedances of the maximum allowable cumulative production levels. These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
3. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the restrictions specified in term B.4 above. These reports are due by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
4. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the rolling 12-month total PE, PM10, SO₂, NO_x, VOC and CO emission limitations. These reports are due by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
5. The permittee shall notify the U.S. EPA and the Ohio EPA Division of Hazardous Waste Management and the Division of Air Pollution Control (Hamilton County Department of Environmental Services), in writing and within 30 days, of burning any used oil exceeding the limitations found in OAC rule 3745-279-11 and/or any incident or occurrence of non-compliance with any other applicable requirement of OAC Chapter 3745-279 and/or 40 CFR part 761; and shall also notify the Ohio EPA Division of Air Pollution Control, within the same amount of time, if any oil is/was burned which exceeds the mercury limitation of 1 ppm and/or is documented as having a heating value of less than 135,000 Btu/gallon.
6. The permittee shall submit quarterly deviation (excursion) reports to the Hamilton County Department of Environmental Services that identify all exceedances of the sulfur content limitations specified above. These reports are due by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
7. The permittee shall submit semiannual written reports that (a) identify all days during which any abnormal visible particulate emissions were observed from the stack serving this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate any abnormal visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July

Emissions Unit ID: P901

31 of each year and shall cover the previous 6-month period.

8. The permittee shall submit semiannual written deviation (excursion) reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the enclosures for the rotary drum and the hot mix asphalt elevator serving this emissions unit, and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.
9. The permittee shall submit semiannual written reports that (a) identify all days during which any visible emissions of fugitive dust were observed from the areas other than the enclosures from the rotary drum and the hot mix asphalt elevator, and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the Hamilton County Department of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.
10. The following source is subject to the applicable provision of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P901	325 to 400 ton/hr asphalt plant	Subpart I

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to 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. Actual start-up date (within 15 days after such date); and
- c. Date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to the appropriate Ohio EPA District Office or local air agency responsible for the permitting of the facility.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions

Issued: To be entered upon final issuance

shall be determined in accordance with the following methods:

- a. Emission Limitations:
NO_x emissions while burning natural gas shall not exceed 0.029 pound per ton of asphalt produced; NO_x emissions while burning on-spec used oil or number 2 fuel oil shall not exceed 0.053 pound per ton of asphalt produced; SO₂ emissions while burning natural gas shall not exceed 0.011 pound per ton of asphalt produced; SO₂ emissions while burning on-spec used oil or number 2 fuel oil shall not exceed 0.066 pound per ton of asphalt produced; CO emissions while burning any approved fuel shall not exceed 0.15 pound per ton of asphalt produced; VOC emissions while burning any approved fuel shall not exceed 0.10 pound per ton of asphalt produced; PE/PM10 while burning any approved fuel shall not exceed 0.03 gr/dscf.

Emissions Unit ID: P901

Applicable Compliance Method

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 the maximum production rate for the primary fuel but no later than 120 days after initial startup of the emissions unit. Emission testing for secondary fuels shall be conducted within 60 days after the switch to the secondary fuel.
- ii. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PE, VOC, CO, NO_x and SO₂ for the primary fuel. Prior to secondary fuel emissions testing, the permittee shall consult the appropriate Ohio EPA District Office or local air agency to determine which pollutants should be tested.
- iii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for:

PE, Methods 1-5 of 40 CFR Part 60, Appendix A.

NO_x, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.

SO₂, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A

VOC, Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emission test shall be calculated in accordance with OAC paragraph 3745-21-10(C)(7) where the average molecular weight of the VOC emissions equals 16. i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. The test(s) shall be conducted while this emissions unit is operating at or

Issued: To be entered upon final issuance

near its maximum capacity and burning natural gas, number 2 fuel oil, or on-spec used oil for PE, VOC, CO, NO_x and SO₂ and employing RAP to verify VOC emissions, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 appropriate Ohio EPA District Office or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

- b. Emission Limitation:
PE/PM₁₀ emissions shall not exceed 7.12 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emission testing, in pounds of PE/PM₁₀ per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term C.3 above), summing the results for all fuels, and dividing by 2000.

The potential to emit PE/PM₁₀ was calculated using information submitted by the permittee in permit to install (PTI) application 14-05959, submitted July 30, 2007:

Emissions Unit ID: **P901**

$0.03 \text{ gr/dscf} \times 36,900 \text{ dscf/min} \times 60 \text{ mins/hr} \times 1 \text{ lb/7000 gr} \times 1 \text{ hr/400 tons} \times 600,000 \text{ tons/year} \times 1 \text{ Ton/2000 lbs} = 7.12 \text{ TPY of PE/PM}_{10}$.

- c. Emission Limitation:
VOC emissions shall not exceed 30.00 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emission testing, in pounds of VOC per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term and condition C.3 above), summing the results for all fuels, and dividing by 2000.

The potential to emit VOC was calculated using information submitted by the permittee in permit to install (PTI) application 14-05959, submitted July 30, 2007:

$0.10 \text{ lb of VOC/ton} \times 600,000 \text{ ton/year} \times 1 \text{ Ton/2000 lbs} = 30.00 \text{ TPY of VOC}$.

- d. Emission Limitation:
CO emissions shall not exceed 45.00 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emission testing, in pounds of CO per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term and condition C.3 above), summing the results for all fuels, and dividing by 2000.

The potential to emit CO was calculated using information submitted by the permittee in permit to install (PTI) application 14-05959, submitted July 30, 2007:

$0.15 \text{ lb of CO/ton} \times 600,000 \text{ tons/year} \times 1 \text{ Ton/2000 lbs} = 45.00 \text{ TPY of CO}$.

- e. Emission Limitation:
SO₂ emissions shall not exceed 19.80 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from

Issued: To be entered upon final issuance

the most recent emission testing, in pounds of SO₂ per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term and condition C.3 above), summing the results for all fuels, and dividing by 2000.

The potential to emit SO₂ was calculated using information submitted by the permittee in permit to install (PTI) application 14-05959, submitted July 30, 2007:

0.066 lb of SO₂/ton x 600,000 tons/year x 1 Ton/2000 lbs = 19.80 TPY of SO₂.

- f. Emission Limitation:
NO_x emissions shall not exceed 15.90 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be determined by multiplying the observed emission rate from the most recent emission testing, in pounds of NO_x per ton of asphalt produced for each fuel, by the actual rolling 12 month summation of asphalt produced for each fuel, in tons per rolling 12-month period (as derived from the records required by term and condition C.3 above), summing the results for all fuels, and dividing by 2000.

The potential to emit NO_x was calculated using information submitted by the permittee in permit to install (PTI) application 14-05959, submitted July 30, 2007:

0.053 lb of NO_x/ton x 600,000 tons/year x 1 Ton/2000 lbs = 15.90 TPY of NO_x.

- g. Emission Limitations:
Arsenic, cadmium, chromium and lead emissions are limited by the fuel specifications in term A.2.g.

Applicable Compliance Method:

Compliance with the emission limitation for arsenic, cadmium and lead shall be demonstrated by the monitoring and record keeping in Section C.1 of this permit.

- h. Emission Limitation:
There shall be no visible emissions of fugitive dust from the enclosures for the rotary drum and the hot mix asphalt elevator.

Applicable Compliance Method:

Compliance with the limitation on visible emissions of fugitive dust found in

Emissions Unit ID: **P901**

Section A.2 of this permit shall be demonstrated by the monitoring and record keeping in Section C.6. Upon request by the appropriate Ohio EPA District Office or local air agency, compliance shall be determined in accordance with Test Method 22 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, 2002, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

i. Emission Limitation:

Visible emissions of fugitive dust (from areas other than the enclosures for the rotary drum and the hot mix asphalt elevator) shall be less than or equal to 10 per cent opacity, as a 3-minute average.

Applicable Compliance Method:

Upon request by the appropriate Ohio EPA District Office or local air agency, 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, 2002, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

j. Emission Limitation:

Visible particulate emissions from the stack shall not exceed 10 per cent opacity as a six-minute average.

Applicable Compliance Method:

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 to demonstrate compliance with the visible emission limitation. For the purpose of demonstrating initial compliance, opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but not later than 180 days after initial startup of the facility;
- ii. compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9;
- iii. not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall

Issued: To be entered upon final issuance

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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s);

- iv. personnel from the appropriate Ohio EPA District Office or local air agency 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; and
- v. 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

- k. **Emission Limitation:**
Emissions of fugitive dust associated with the cold aggregate, sand and RAP loading, and the cold aggregate, sand and RAP transfer operations shall not exceed 4.23 tons of PE per rolling 12-month period and 2.01 tons of PM10 per rolling 12-month period.

Applicable Compliance Method:

Compliance shall be calculated based upon the following worst case calculations (Emission factors based on AP-42, 5th Edition, Table 11.12-2, 10/2001):

Fugitive emissions from the cold end are calculated as follows:

Hopper loading:

600,000 tons of material/year X 0.0051 lb of PE/ton of material = 3060 lbs of PE/yr; and

600,000 tons of material/year X 0.0024 lb of PM10/ton of material = 1440 lbs of PM10/yr.

Barrett Paving Materials, Inc.**DTL Application: 14-05050****Facility ID: 1483980486**Emissions Unit ID: **P901**

Aggregate transfer:

600,000 tons of aggregate/year X 0.0069 lb of PE/ton of aggregate = 4140 lb of PE/yr; and

600,000 tons of aggregate/year X 0.0033 lb of PM10/ton of aggregate = 1980 lb of PM10/yr.

Issued: To be entered upon final issuance

Sand transfer:

600,000 tons of sand/year X 0.0021 lb of PE/ton of sand = 1260 lb of PE/yr; and
600,000 tons of sand/year X 0.00099 lb of PM10/ton of sand = 594 lb of
PM10/yr.

The sum of the above is 8460 lb of PE/yr X 1 ton/2000 lbs = 4.23 tons of PE; and
The sum of the above is 4014 lb of PM10/yr X 1 ton/2000 lbs = 2.01 tons of
PM10.

I. Asphalt Load out and Silo Filling Emissions:

Emissions from load out operations shall not exceed 0.41 ton of CO per rolling
12-month period, 0.16 ton of PE per rolling 12-month period and 1.17 tons of OC
per rolling 12-month period.

Emissions from silo filling operations shall not exceed 0.35 ton of CO per rolling
12-month period, 0.18 ton of PE per rolling 12-month period and 3.61 tons of OC
per rolling 12-month period.

Emissions from asphalt load out and silo filling operations are calculated as
follows:

Asphalt plant silo filling and plant load out Emission Factors based on AP-42,
Fifth Edition, Table 11.1-14, dated 3/2004.

Known:

V = -0.5 Asphalt volatility factor (default) T = 325 HMA mix temp (F)
(default)

For silo filling, 1.4 per cent of TOC is not VOC AP-42 Table 11.1-16
dated 3/2004

For plant load out, 7.3 per cent of TOC is not VOC AP-42 Table 11.1-16
dated 3/2004

<u>Activity</u>	<u>Pollutant</u>	<u>Predictive Emission Factor Equation, lb/ton</u>
Silo filling	PE	$EF=0.000332+0.00105(-V)e^{((0.0251)(T+460)-20.43)}$
Load out	PE	$EF=0.000181+0.00141(-V)e^{((0.0251)(T+460)-20.43)}$

Issued: To be entered upon final issuance

Silo filling	VOC	$EF = [0.0504(-V)e^{((0.0251)(T+460)-20.43)}] \times (1-0.014)$
Load out	VOC	$EF = [0.0172(-V)e^{((0.0251)(T+460)-20.43)}] \times (1-0.073)$
Silo filling	CO	$EF = 0.00488(-V)e^{((0.0251)(T+460)-20.43)}$
Load out	CO	$EF = 0.00558(-V)e^{((0.0251)(T+460)-20.43)}$

Based on the above information, the emission factors and emissions are as follows.

<u>Activity</u>	<u>Pollutant</u>	<u>lb/ton</u>	<u>tons/yr (at 600,000 tons/yr production)</u>
Silo filling	PE	5.86×10^{-4}	0.18
Load out	PE	5.22×10^{-4}	0.16
Silo filling	VOC	1.20×10^{-2}	3.61
Load out	VOC	3.86×10^{-3}	1.16
Silo filling	CO	1.18×10^{-3}	0.35
Load out	CO	1.35×10^{-3}	0.41

The PM10 emissions are assumed equivalent to the PE.

F. Miscellaneous Requirements

None

Barrett Paving Materials, Inc.
PTI Application: 14-05959
Issued: To be entered upon final issuance

Facility ID: 1483980486

Emissions Unit ID: **P901**

SIC CODE	2951	SCC CODE	3-05-002-13, 3-05-002-14, 3-05-002-16, 3-05-002-17, 3-05-002-57, 3-05-002-60, 3-05-002-63	EMISSIONS UNIT ID	P901
----------	------	----------	---	-------------------	------

EMISSIONS UNIT DESCRIPTION Portable counter-flow drum mix asphalt plant with a maximum design capacity greater than 325 tons per hour and less than or equal to 400 tons per hour, controlled with a baghouse

DATE INSTALLED Upon PTI issuance

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment		8.13		11.69
PM ₁₀	Attainment		8.13		9.47
Sulfur Dioxide	Attainment		3.30		19.80
Organic Compounds	Non-attainment		30.00		34.78
Nitrogen Oxides	Attainment		8.70		15.90
Carbon Monoxide	Attainment		45.00		45.76
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? Subpart I NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of a baghouse controlling the PE from the drum, compliance with the short-term emissions limitations, compliance with the rolling, 12-month operational restriction, compliance with the rolling, 12-month emissions limitations, compliance with the visible emissions limitations, and compliance with the operational restrictions regarding the use of used oil, maintenance of the fuel burner, use of RAP and latex, and fuel restrictions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES x NO

IDENTIFY THE AIR CONTAMINANTS: _____