



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
Toll Free (800) 451-6027  
[www.idem.IN.gov](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: March 16, 2010

RE: Wabash Valley Asphalt, LLC / 167-28587-00114

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot12/03/07



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March 16, 2010

Dan Conley  
Wabash Valley Asphalt, LLC  
P.O. Box 9778  
Terre, Haute, IN 47808

Re: 167-28587-00114  
First Significant Revision to  
F167-27351-00114

Dear Dan Conley:

Wabash Valley Asphalt, LLC was issued a Federally Enforceable State Operating Permit Renewal No. F167-27351-00114 on August 7, 2009 for a stationary drum mix asphalt plant located at 5600 East Margaret Avenue, Terre, Haute, Indiana 47803. On October 19, 2009, the Office of Air Quality (OAQ) received an application from the source requesting to revise its permit to modify its raw material mix to include the use of slag, to add a cold mix asphalt process, to modify the fuel equivalency ratio, and to modify its stack testing requirements. The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Jack Harmon, of my staff, at 317-233-4228 or 1-800-451-6027, and ask for extension 3-4228.

Sincerely,

Iryn Galilung, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Technical Support Document and revised permit

IC/jh

cc: File - Vigo County  
Vigo County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



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**Federally Enforceable State Operating Permit  
Renewal  
OFFICE OF AIR QUALITY**

**Wabash Valley Asphalt, LLC  
5600 East Margaret Avenue  
Terre Haute, Indiana 47803**

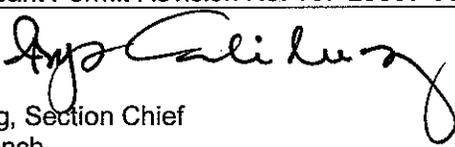
(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

Operation Permit No.: F167-27351-00114	
Original Issued by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: August 7, 2009 Expiration Date: August 7, 2019

First Significant Permit Revision No: 167-28587-00114	
Issued By:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 16, 2010 Expiration Date: August 7, 2019

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## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

---

The Permittee owns and operates a stationary Drum Mix Asphalt Plant, which uses slag in its aggregate mix, and produces cold mix.

Source Address:	5600 East Margaret Avenue, Terre Haute, Indiana 47803
Mailing Address:	P.O.Box 9778, Terre Haute, IN 47808
General Source Phone Number:	812-232-6094
SIC Code:	2951
County Location:	Vigo
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. Under NSPS 40 CFR Part 60, Subpart I, this source is considered an affected facility.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. Under NSPS 40 CFR Part 60, Subpart I, this source is considered an affected facility.
- (c) Two (2) above ground horizontal storage tanks used for storing AC 20, identified as tanks 9 and 9B, each with a maximum capacity of 20,000 gallons, exhausting to stack SV3 and SV5, respectively.
- (d) One (1) above ground vertical storage tank used for storing AC 20, identified as tank 9A, with a maximum capacity of 20,000 gallons, exhausting to stack SV4.
- (e) One (1) above ground vertical storage tank used for storing fuel oil #4, identified as tank 10, with a maximum capacity of 14,000 gallons, exhausting to a vent.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) The following VOC and HAP storage containers:
  - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (b) Application of oils, greases, lubricants, or other nonvolatile material applied as temporary protective coatings.
- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (d) One (1) above -ground fuel storage tank for on-road fuel, and having a maximum storage capacity of 8,000 gallons; and
- (e) One (1) above -ground fuel storage tank for off-road fuel, and having a maximum storage capacity of 9,500 gallons.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

## **SECTION B GENERAL CONDITIONS**

### **B.1 Definitions [326 IAC 2-8-1]**

---

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### **B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]**

- 
- (a) This permit, F167-27351-00114, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

### **B.3 Term of Conditions [326 IAC 2-1.1-9.5]**

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Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]**

---

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability [326 IAC 2-8-4(4)]**

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The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### **B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]**

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This permit does not convey any property rights of any sort or any exclusive privilege.

### **B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

- 
- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

**B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]**

---

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

**B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance and Enforcement Branch), or  
Telephone Number: 317-233-0178 (ask for Compliance and Enforcement  
Branch)  
Facsimile Number: 317-233-6865

Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
  - (g) Operations may continue during an emergency only if the following conditions are met:
    - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
    - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

**B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to F167-27351-00114 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

**B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.20 Source Modification Requirement [326 IAC 2-8-11.1]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

**B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]**

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- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]**

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- (a) The requirements to obtain a permit modification under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

**B.25 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]**

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For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

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Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
- (A) Asbestos removal or demolition start date;
- (B) Removal or demolition contractor; or
- (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The

notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Licensed Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.8 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### **Compliance Requirements [326 IAC 2-1.1-11]**

#### **C.9 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

## **Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

### **C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

### **C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

---

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60, Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

### **C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

## **Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]**

### **C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

#### **C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]**

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- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance or ninety (90) days of initial start-up, whichever is later.

#### **C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]**

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- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. Under NSPS 40 CFR Part 60, Subpart I, this source is considered an affected facility.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. Under NSPS 40 CFR Part 60, Subpart I, this source is considered an affected facility.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 FESOP and PSD Limits [326 IAC 2-8-4] [326 IAC 2-2]

The source uses slag in its aggregate mix for hot asphalt production. Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

- (a) SO<sub>2</sub> emissions from the slag processing shall not exceed seventy-four hundredths (0.74) pound per ton of slag processed;
- (b) Volume of slag used in the aggregate mix shall not exceed fifty-five thousand (55,000) tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (c) The sulfur content of the slag shall not exceed 1.5% by weight;
- (d) The volume of No. 2 Fuel Oil used in the process shall not exceed 2,011,140 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month; and
- (e) The volume of No. 4 Fuel Oil used in the process shall not exceed 1,878,902 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with this requirement, combined with the SO<sub>2</sub> emissions from other units, limits the SO<sub>2</sub> emissions from the entire source to less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (PSD) are not applicable.

#### D.1.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

- (a) The amount of asphalt processed shall not exceed 1,400,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The PM emissions from the dryer/mixer shall not exceed 0.242 pounds per ton of asphalt processed.

Compliance with these limitations, combined with the limited potential to emit from other emission units at this source, shall limit the source-wide total potential to emit PM to less than 250 tons per 12 consecutive month period and shall render 326 IAC 2-2 (PSD) not applicable.

D.1.3 Dryer and Mixer FESOP Limits [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) The amount of asphalt processed shall not exceed 1,400,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The PM10 emissions from the dryer/mixer shall not exceed 0.106 pounds per ton of asphalt processed.
- (c) The PM2.5 emissions from the dryer/mixer shall not exceed 0.125 pounds of PM2.5 per ton of asphalt produced.
- (d) The CO emissions from the dryer/mixer shall not exceed 0.130 pounds per ton of asphalt processed.
- (e) The VOC emissions from the dryer/mixer shall not exceed 0.032 pounds per ton of asphalt processed.
- (f) The cutback asphalt slow cure liquid binder usage (containing a maximum of 23.5% by weight of VOC solvent in the liquid binder and 25% by weight of VOC solvent evaporating) shall not exceed 240 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limitations, combined with the limited PTE from other emission units at this source, shall limit the source-wide total potential to emit PM10, PM2.5, CO, VOC, SO2 and NOx to less than 100 tons per 12 consecutive month period, and shall render 326 IAC 2-7 (Part 70), 326 IAC 2-2 (PSD), and 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities) not applicable.

D.1.4 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County), particulate matter (PM) emissions from the dryer/mixer shall not exceed 0.03 grain per dry standard cubic foot of exhaust air because the source is located in Vigo County.

D.1.5 Fuel Usage and Equivalency Limits [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) Natural Gas
  - (1) The natural gas combusted in the dryer/mixer burner shall not exceed 1,034.53 million standard cubic feet (MMcf) per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (i) every kilogallon of No. 2 fuel oil burned in the dryer/mixer burner shall be equivalent to 0.126 MMcf of natural gas, based on NOx emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified;
- (ii) every kilogallon of No. 4 fuel oil burned in the dryer/burner shall be equivalent to 0.247 MMcf of natural gas, based on NOx

emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.

- (2) The NO<sub>x</sub> emissions from the dryer/mixer burner shall not exceed 190 pounds per MMcf of natural gas.

(b) No. 2 Fuel Oil

- (1) The No. 2 fuel oil combusted in the dryer/mixer burner shall not exceed 2,011,140 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (i) Every gallon of No. 4 fuel oil burned in the dryer/mixer burner shall be equivalent to 1.18 gallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified;
  - (ii) every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to 0.009 kilogallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent does not exceed the limit specified.
- (2) The sulfur content of the No. 2 fuel oil used in the dryer/mixer burner shall not exceed 0.482% by weight.
  - (3) The SO<sub>2</sub> emissions from the dryer/mixer burner shall not exceed 0.076 pounds per gallon (lb/gal) of No. 2 fuel oil.

(c) No. 4 Fuel Oil

- (1) The No. 4 fuel oil combusted in the dryer/mixer burner shall not exceed 1,878,902 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (i) every gallon of No. 2 fuel oil burned in the dryer/mixer burner shall be equivalent to 0.84 gallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 4 fuel oil and fuel oil equivalent input does not exceed the limit specified;
  - (ii) every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to 0.007 kilogallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 4 fuel oil and No. 4 fuel oil equivalent does not exceed the limit specified.
- (2) The sulfur content of the No. 4 fuel oil used in the dryer/mixer burner shall not exceed 0.540% by weight.
  - (3) The SO<sub>2</sub> emissions from the dryer/mixer burner shall not exceed 0.081 pounds per gallon (lb/gal) of No. 4 fuel oil.

Compliance with these limitations, combined with the limited PTE from other emission units at this source, shall limit the source-wide total potential to emit SO<sub>2</sub> and NO<sub>x</sub> to less than 100 tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (PSD), not applicable.

**D.1.6 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1]**

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Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), the sulfur dioxide emissions from the 120.0 million Btu per hour burner for the aggregate dryer shall be limited to:

- (a) 0.5 pounds per million Btu heat input when using distillate oil.

**D.1.7 Volatile Organic Compound Rules for Asphalt Pavers [326 IAC 8-5-2]**

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Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the use of cutback asphalt or asphalt emulsion shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage
- (c) application during the months of November, December, January, February and March.

**D.1.8 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**Compliance Determination Requirements**

**D.1.9 Testing Requirements [326 IAC 2-8-5(1), (4)] [326 IAC 2-1.1-11]**

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Pursuant to 326 IAC 2-8-5(1), and in order to demonstrate compliance with Conditions D.1.1, D.1.2, and D.1.3 the Permittee shall perform testing as follows:

- (a) In order to demonstrate compliance with Condition D.1.1(a), the Permittee shall perform SO<sub>2</sub> testing on Stack SV-1 within 180 days of the initial use of blast furnace slag its aggregate mix. This testing shall be conducted utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.
- (b) In order to demonstrate compliance with Conditions D.1.3(b) and D.1.3(c), the Permittee shall perform PM<sub>2.5</sub> and PM<sub>10</sub> testing on the dryer/mixer within 180 days of publication of the new or revised condensible PM test method(s) referenced in the U.S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM<sub>2.5</sub>), signed on May 8th, 2008, or five (5) years from the last valid compliance demonstration, whichever is later. This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing. PM<sub>10</sub> and PM<sub>2.5</sub> includes filterable and condensible PM.
- (c) In order to demonstrate compliance with Condition D.1.2(b), the Permittee shall perform PM testing of the dryer/mixer, within five (5) years from the last valid compliance demonstration, utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

#### D.1.10 Particulate Control

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- (a) In order to comply with Conditions D.1.2, D.1.3, and D.1.4, the baghouse for the dryer/mixer shall be in operation and control emissions from the dryer/mixer at all times when the dryer/mixer is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

#### D.1.11 Sulfur Dioxide (SO<sub>2</sub>) Emissions and Sulfur Content

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- (a) Pursuant to 326 IAC 2-8-4, compliance with Condition D.1.1(c) shall be determined utilizing one of the following options:
  - (1) Providing a vendor analysis of slag delivered, if accompanied by a vendor certification; or
  - (2) Analyzing a sample of the slag delivery to determine the sulfur content of the slag, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or any other procedures approved by IDEM, OAQ.
- (b) Pursuant to 326 IAC 3-7-4, compliance with Conditions D.1.5 and D.1.6 shall be demonstrated utilizing one of the following options:
  - (1) Providing vendor analysis of heat content and sulfur content of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (i) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (ii) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

A determination of noncompliance pursuant to any of the methods specified in (b) or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

#### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

#### D.1.12 Visible Emissions Notations

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- (a) Visible emission notations of the conveyors, screens, material transfer points, and dryer/mixer stack (S-1) exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### **D.1.13 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the dryer/mixer at least once per day when the dryer/mixer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of one (1.0) to eight (8.0) inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instruments used for determining the pressure and temperature shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### **D.1.14 Broken or Failed Bag Detection**

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- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, or dust traces.

#### **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

##### **D.1.15 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with the following:
  - (1) Actual slag usage and sulfur content for all slag used at the source per month;
  - (2) A certification, signed by the owner or operator, that the records of the slag

supplier certifications represent all of the slag used during the period;

- (3) If the slag supplier certification is used to demonstrate compliance, the following, at a minimum, shall be maintained:
  - (i) Slag supplier certification;
  - (ii) Name of the slag supplier; and
  - (iii) Statement from the slag supplier that certifies the sulfur content of the slag;
- (b) To document compliance with Conditions D.1.2(a) and D.1.3(a), the Permittee shall keep records of the amount of asphalt processed through the dryer/mixer. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (c) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records in accordance with (1) through (6) below.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel usage, sulfur content, heat content and equivalent sulfur dioxide and NOx emission rates for each fuel used at the source per month;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the No. 2 and No. 4 fuel oil.

The Permittee shall maintain records of all recording/monitoring data and support information in accordance with Section C - General Record Keeping Requirements, of this permit. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (d) To document compliance with Condition D.1.12, the Permittee shall maintain daily records of the visible emission notations from each of the conveyors, screens, material transfer points, and dryer/mixer stack (S-1) exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the plant did not operate that day).
- (e) To document compliance with Condition D.1.13, the Permittee shall maintain the daily records of the pressure drop across the baghouse controlling the dryer/mixer. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (e.g., the dryer/mixer did not operate that day).

- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.16 Reporting Requirements

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A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2, D.1.3, and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

## SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS

### Emissions Unit Description:

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. Under NSPS 40 CFR Part 60 Subpart I, this source is considered an affected facility.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. Under NSPS 40 CFR Part 60 Subpart I, this source is considered an affected facility

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

### New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

#### E.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12-1, apply to the asphalt plant described in this section except when otherwise specified in 40 CFR 60 Subpart I.

#### E.1.2 NSPS Subpart I Requirements [40 CFR Part 60, Subpart I] [326 IAC 12-1]

Pursuant to CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the asphalt plant as specified in Attachment B of this permit. Pursuant to 40 CFR 60.90(a), the affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)\_\_\_\_\_
- Report (specify)\_\_\_\_\_
- Notification (specify)\_\_\_\_\_
- Affidavit (specify)\_\_\_\_\_
- Other (specify)\_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: (317) 233-0178  
Fax: (317) 233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: No. 2 fuel oil and equivalent usage limit to limit SO<sub>2</sub> emissions  
Limit: The usage of No. 2 fuel oil and No. 2 fuel oil equivalents in the dryer/mixer burner shall not exceed 2,011,140 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalents input does not exceed the limit specified.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	No. 2 Fuel Oil and Equivalent Usage This Month	No. 2 Fuel Oil and Equivalent Usage Previous 11 Months	No. 2 Fuel Oil and Equivalent Usage 12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: No. 4 fuel oil and equivalent usage limit to limit SO<sub>2</sub> emissions  
Limit: The usage of No. 4 fuel oil and No. 2 fuel oil equivalents in the dryer/mixer burner shall not exceed 1,878,902 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total gallons of No. 4 fuel oil and No. 4 fuel oil equivalents input does not exceed the limit specified.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	No. 4 Fuel Oil and Equivalent Usage This Month	No. 4 Fuel Oil and Equivalent Usage Previous 11 Months	No. 4 Fuel Oil and Equivalent Usage 12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: Natural Gas and equivalent usage limit to limit NOx emissions  
Limit: The usage of natural gas and equivalents in the dryer/mixer burner shall not exceed 1034.53 million cubic feet (MMcf) per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total Million cubic feet (MMcf) does not exceed the limit specified.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	Natural Gas and Equivalent Usage This Month	Natural Gas and Equivalent Usage Previous 11 Months	Natural Gas and Equivalent Usage 12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: Hot Asphalt Production Limit  
Limit: The throughput of aggregate in the aggregate dryer shall not exceed 1,400,000 tons per twelve (12) consecutive month periods.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-28587-00114  
Facility: Dryer/Mixer  
Parameter: Slag Usage Limit  
Limit: The throughput of slag in the aggregate dryer shall not exceed 55,000 tons per twelve (12) consecutive month periods.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-28587-00114  
Facility: Cold Mix Process  
Parameter: Cold Mix Liquid Binder Usage  
Limit: The cutback asphalt slow cure liquid binder usage shall not exceed 240 tons of VOC solvent per twelve (12) consecutive month periods.

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Attachment A  
Fugitive Dust Control Plan**

**For**

**Wabash Valley Asphalt, LLC  
5600 East Margaret Avenue  
Terre Haute, Indiana 47803**

- (a) Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following methods:
- Paved roads and parking lots:
- (1) power brooming while wet either from rain or application of water on an as needed basis.
- Unpaved roads and parking lots:
- (1) paving with asphalt;
  - (2) treating with emulsified asphalt on an as needed basis;
  - (3) treating with water on an as needed basis; or
  - (4) double chip and seal the road surface and maintained on an as needed basis.
- (b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:
- (1) maintaining minimum size and number of stockpiles of aggregate;
  - (2) treating around the stockpile area with emulsified asphalt;
  - (3) treating around the stockpile area with water; or
  - (4) treating the stockpiles with water.
- (c) Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following methods:
- (1) applying water at the feed and the intermediate points.
- (d) Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:
- (1) minimize the vehicular distance between transfer points;
  - (2) enclose the transfer points; or
  - (3) apply water on transfer points on an as needed basis.
- (e) Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:
- (1) maintain vehicle bodies in condition to prevent leakage;
  - (2) spray the aggregates with water; or
  - (3) maintain a 10 mph speed limit in the yard.
- (f) Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:
- (1) reduce free fall distance to a minimum;
  - (2) reduce the rate of discharge of the aggregate; or
  - (3) spray the aggregate with water on an as needed basis.

**Attachment B**  
**New Source Performance Standards (NSPS) [326 IAC 12-1] [40 CFR 60, Subpart I]**

**For**

**Wabash Valley Asphalt, LLC**  
**5600 East Margaret Avenue**  
**Terre Haute, Indiana 47803**

Pursuant to CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the asphalt plant as specified as follows. Pursuant to 40 CFR 60.90(a), the affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

§ 60.91 Definitions

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

- (a) *Hot mix asphalt facility* means any facility, as described in §60.90, used to manufacture hot mix asphalt by heating and drying aggregate and mixing with asphalt cements.

§ 60.92 Standard for particulate matter

- (a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere from any affected facility any gases which:

- (1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).
- (2) Exhibit 20 percent opacity, or greater.

§ 60.93 Test methods and procedures

- (a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).
- (b) The owner or operator shall determine compliance with the particulate matter standards in §60.92 as follows:
- (1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).
  - (2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Significant Permit Revision to a  
Federally Enforceable State Operating Permit (FESOP)

**Source Description and Location**

**Source Name:** Wabash Valley Asphalt, LLC  
**Source Location:** 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
**County:** Vigo  
**SIC Code:** 2951  
**Operation Permit No.:** F 167-27351-00114  
**Operation Permit Issuance Date:** August 7, 2009  
**Significant Permit Revision No.:** 167-28587-00114  
**Permit Reviewer:** Jack Harmon

On October 19, 2009, the Office of Air Quality (OAQ) received an application from Wabash Valley Asphalt, LLC related to a modification to an existing stationary drum mix asphalt plant. Additional information was received on November 16 and December 2, 2009.

**Existing Approvals**

The source was issued FESOP Renewal No. 167-27351-00114 on August 7, 2009. The source has had no subsequent permit approvals.

**County Attainment Status**

The source is located in Vigo County.

Pollutant	Designation
SO <sub>2</sub>	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O <sub>3</sub>	Attainment effective February 6, 2006, for the Terre Haute area, including Vigo County, for the 8-hour ozone standard. <sup>1</sup>
PM <sub>10</sub>	Unclassifiable effective November 15, 1990.
NO <sub>2</sub>	Cannot be classified or better than national standards.
Pb	Not designated.
<sup>1</sup> Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Vigo County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM2.5

Vigo County has been classified as attainment for PM2.5. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM2.5 emissions, and the effective date of these rules was July 15<sup>th</sup>, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements. The May 8, 2008 rule revisions require IDEM to regulate PM10 emissions as a surrogate for PM2.5 emissions until 326 IAC 2-2 is revised.

(c) Other Criteria Pollutants

Vigo County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

**Fugitive Emissions**

This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, however, there is an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

**Status of the Existing Source**

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Dryer/Mixer Combustion	7.76	9.20	9.20	89.83	95.99	2.78	42.44	1.11	0.91 (HCl)
Dryer/Mixer Process	178.31	75.43	87.42	7.70	38.50	22.40	91.00	7.46	2.17 (Formaldehyde)
Heater Combustion	0.79	0.94	0.94	9.17	3.01	0.09	1.33	0.00	0.029 (H (Hexane))
Worst Case Emissions	179.10	76.37	88.36	99.00	99.00	22.49	92.33	7.46	2.17 (Formaldehyde)
<u>Fugitive Emissions</u>									
Loadout	0.78	0.78	0.78	0	0	11.99	2.02	0.20	0.06 (Formaldehyde)
Storage	0.13	0.05	0.05	0	0	0	0	0	0
Process Handling	18.61	6.51	0.99	0	0	0	0	0	0
Screening/Conveying	22.21	8.11	8.11	0	0	0	0	0	0
Unpaved and paved Roads	28.17	7.18	0.72	0	0	0	0	0	0
VOC Liquid Storage Vessels	0	0	0	0	0	negl.	0	negl.	negl.
Total PTE of Entire Source	249.00	99.00	99.00	99.0	99.0	34.48	94.35	7.75	2.17 (Formaldehyde)

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)								
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.									

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the unlimited potential to emit HAPs are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

**Description of Proposed Revision**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Wabash Valley Asphalt, LLC on October 19, 2009, relating to a request to modify the raw material mix in its process, to add a cold mix process to its operation, to modify the fuel equivalency ratio, to modify the stack testing requirements, and to update the descriptive information in Section A.2 and A.3 to more accurately describe emission units at the source.

The following is a list of the specific proposed items:

- (a) The source has proposed to add the ability to use slag materials in its aggregate mix in the production of asphalt. The type of slag would primarily be blast furnace slag, with a maximum sulfur content of 1.5%;
- (b) The source has proposed to add the ability to produce Cold Mix Asphalt Production, and has supplied information related to the materials and quantities to be used in that process;
- (c) The source has proposed to add Natural Gas fuel equivalency ratios to both the Number 2 Fuel Oil and the Number 4 Fuel Oil fuels as shown in Condition D.1.5 of the existing permit. These factors were inadvertently omitted in the existing permit.
- (d) The source has proposed to change the testing requirement for its stack as described in Condition D.1.9(a) in its existing permit. The existing permit requires stack testing within 180 days of the issuance of the existing permit. Testing was performed on July 31, 2007 and August 1, 2007, and demonstrated compliance to the limits established in the existing permit. Therefore, the source is proposing to change the frequency of testing to the standard of every five years from the date of the last valid compliance demonstration.
- (e) The source has requested that the 2.115 MMBtu/hr heater, shown in Section A.2(b), be removed from the permit, since it has been removed from the source.

- (f) The source has requested to add the description of two storage tanks to Section A.3 Insignificant Activities that exists at the source. One tank is 8000 gallons, used for on-road fuel, storing No. 2 Fuel Oil. The other tank is 9500 gallons for off-road fuel, storing No. 2 fuel oil.

**Enforcement Issues**

There are no pending enforcement actions related to this revision.

**Emission Calculations**

See Appendix A of this TSD for detailed emission calculations.

**Permit Level Determination – FESOP Revision**

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Dryer/Mixer Slag Processing	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	0.00
Cold Mix Process	0.00	0.00	0.00	0.00	0.00	60.00	0.00	15.65	5.40 (xylenes)
Fugitive Emissions Storage Piles	2.10	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total PTE of Proposed Revision</b>	<b>2.10</b>	<b>0.73</b>	<b>0.73</b>	<b>20.40</b>	<b>0.00</b>	<b>60.00</b>	<b>0.00</b>	<b>15.65</b>	<b>5.40 (xylenes)</b>
* Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

This FESOP is being revised through a FESOP Significant Permit Revision pursuant to 326 IAC 2-8-11.1(g)(2) because it involves adjustment to the existing source-wide emissions limitations to maintain the FESOP status of the source (see PTE of the Entire Source After The Issuance of the FESOP Revision Section).

**PTE of the Entire Source After Issuance of the FESOP Revision**

The table below summarizes the potential to emit of the entire source, reflecting adjustment of existing limits, with updated emissions shown as **bold** values and previous emissions shown as ~~strike through~~ values.

Process/Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)								
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Dryer/Mixer Combustion	<b>6.58</b> <del>7.76</del>	<b>7.80</b> <del>9.20</del>	<b>7.80</b> <del>9.20</del>	<b>76.10</b> <del>89.83</del>	<b>98.28</b> <del>95.99</del>	<b>2.84</b> <del>2.78</del>	<b>43.45</b> <del>42.44</del>	<b>1.10</b> <del>1.11</del>	<b>0.93</b> <del>0.94 (HCl)</del>
Dryer/Mixer Process	<b>169.49</b> <del>178.34</del>	<b>74.41</b> <del>75.43</del>	<b>87.62</b> <del>87.42</del>	<b>40.60</b> <del>7.70</del>	38.50	22.40	91.00	7.46	2.17 (Formaldehyde)
<b>Dryer/Mixer Slag Processing</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>20.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Heater Combustion	<b>0.07</b> <del>0.79</del>	<b>0.12</b> <del>0.94</del>	<b>0.12</b> <del>0.94</del>	<b>2.55</b> <del>9.17</del>	<b>0.72</b> <del>3.04</del>	<b>0.03</b> <del>0.09</del>	<b>0.42</b> <del>1.33</del>	<b>0.01</b> <del>0.00</del>	<b>0.009</b> <del>0.029 (Hexane)</del>
Worst Case Emissions	<b>169.56</b> <del>179.10</del>	<b>74.52</b> <del>76.37</del>	<b>87.74</b> <del>88.36</del>	99.00	99.00	<b>22.43</b> <del>22.49</del>	<b>91.42</b> <del>92.33</del>	<b>7.47</b> <del>7.46</del>	2.17 (Formaldehyde)
Fugitive Emissions									
Loadout	0.78	0.78	0.78	0	0	11.99	2.02	0.20	0.06 (Formaldehyde)
Storage	<b>2.23</b> <del>0.13</del>	<b>0.78</b> <del>0.05</del>	<b>0.78</b> <del>0.05</del>	0	0	0	0	0	0
Process Handling	<b>4.52</b> <del>18.64</del>	<b>2.14</b> <del>6.54</del>	<b>0.32</b> <del>0.99</del>	0	0	0	0	0	0
Screening/Conveying	22.21	8.11	8.11	0	0	0	0	0	0
Unpaved and paved Roads	<b>49.70</b> <del>28.17</del>	<b>12.67</b> <del>7.18</del>	<b>1.27</b> <del>0.72</del>	0	0	0	0	0	0
<b>Cold Mix Process</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>60.00</b>	<b>0.00</b>	<b>15.65</b>	<b>5.40 (Xylenes)</b>
VOC Liquid Storage Vessels	0	0	0	0	0	negl.	0	negl.	negl.
Total PTE of Entire Source	249.00	99.00	99.00	99.0	99.0	<b>94.42</b> <del>34.48</del>	<b>93.44</b> <del>94.35</del>	<b>23.41</b> <del>7.75</del>	<b>5.40 (Xylenes)</b> <del>2.17 (Formaldehyde)</del>
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.									

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)								
	PM	PM10*	PM2.5	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	Total HAPs	Worst Single HAP
Dryer/Mixer Combustion	6.58	7.80	7.80	76.10	98.28	2.84	43.45	1.10	0.93 (HCl)
Dryer/Mixer Process	169.49	74.41	87.62	40.60	38.50	22.40	91.00	7.46	2.17 (Formaldehyde)
Dryer/Mixer Slag Processing	0.00	0.00	0.00	20.35	0.00	0.00	0.00	0.00	0.00
Heater Combustion	0.07	0.12	0.12	2.55	0.72	0.03	0.42	0.01	0.009 (Hexane)
Worst Case Emissions	169.56	74.52	87.74	99.00	99.00	22.43	91.42	7.47	2.17 (Formaldehyde)
Fugitive Emissions									
Loadout	0.78	0.78	0.78	0	0	11.99	2.02	0.20	0.06 (Formaldehyde)
Storage	2.23	0.78	0.78	0	0	0	0	0	0
Process Handling	4.52	2.14	0.32	0	0	0	0	0	0
Screening/Conveying	22.21	8.11	8.11	0	0	0	0	0	0
Unpaved and paved Roads	49.70	12.67	1.27	0	0	0	0	0	0
Cold Mix Process	0.00	0.00	0.00	0.00	0.00	60.00	0.00	15.65	5.40 (Xylenes)
VOC Liquid Storage Vessels	0	0	0	0	0	negl.	0	negl.	negl.
Total PTE of Entire Source	249.00	99.00	99.00	99.0	99.0	94.42	93.44	23.41	5.40 (Xylenes)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.									

(a) FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) SO<sub>2</sub> emissions from the slag processing shall not exceed seventy-four hundredths (0.74)

pound per ton of slag processed;

- (2) Volume of slag used in the aggregate mix shall not exceed fifty-five thousand (55,000) tons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (3) The sulfur content of the slag shall not exceed 1.5% by weight; and
- (4) The cutback asphalt slow cure liquid binder usage (containing a maximum of 23.5% by weight of VOC solvent in the liquid binder and 25% by weight of VOC solvent evaporating) shall not exceed 240 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (5) The following limits shall apply:
  - (i) The usage of natural gas and equivalents in the dryer/burner shall be limited to 1,034.53 million cubic feet (MMcf) per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (A) every kilogallon of No. 2 fuel oil burned in the dryer/mixer burner shall be equivalent to 0.126 MMcf of natural gas, based on NO<sub>x</sub> emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified;
  - (B) every kilogallon of No. 4 fuel oil burned in the dryer/burner shall be equivalent to 0.25 MMcf of natural gas, based on NO<sub>x</sub> emissions, such that the total MMcf of natural gas and natural gas equivalent input does not exceed the limit specified.
- (ii) The usage of No. 2 fuel oil, with content limits of 0.482% sulfur, and equivalents in the dryer/burner shall be limited to 2,011,140 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (A) every gallon of No. 4 fuel oil burned in the dryer/mixer burner shall be equivalent to 1.18 gallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed 2,011,140 gallons per twelve (12) consecutive month period.
  - (B) every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to 0.009 kilogallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent does not exceed the limit specified.
- (iii) The usage of No. 4 fuel oil, with a maximum sulfur content of 0.540%, and equivalents in the dryer/burner shall be limited to 1,878,902 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (A) every gallon of No. 2 fuel oil burned in the dryer/mixer burner shall be equivalent to 0.84 gallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that

the total gallons of No. 4 fuel oil and fuel oil equivalent input does not exceed 1,878,902 gallons per twelve (12) consecutive month period.

- (B) every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to .007 kilogallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 4 fuel oil and No. 4 fuel oil equivalent does not exceed the limit specified.

Fuel Equivalency calculations are shown in Appendix 3 of this document.

- (iv) SO<sub>2</sub> emissions from the fuel oil combustion shall not exceed 0.068 pound per gallon when combusting No. 2 fuel oil and shall not exceed 0.081 pound per gallon when combusting No. 4 fuel oil.
- (6) PM<sub>10</sub> emissions from the dryer/mixer shall not exceed 0.106 pounds of PM<sub>10</sub> per ton of asphalt produced.

The PM<sub>10</sub> limit was adjusted due to the addition of slag and cold mix. This revision did not require adjustments to the asphalt production, PM<sub>2.5</sub>, CO, VOC, or NO<sub>x</sub> limits. The source shall continue to comply with all other applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.

Compliance with these limits, combined with the potential to emit SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO from all other emission units at this source, shall limit the source-wide total potential to emit of SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO to less than 100 tons per 12 consecutive month period, each, any single HAP to less than ten (10) tons per 12 consecutive month period, and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 326 IAC 2-1.1-5 (Nonattainment New Source Review), and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable.

(b) PSD Minor Source

This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the source shall comply with the following:

- (1) PM emissions from the dryer/mixer shall not exceed 0.242 pounds of PM per ton of asphalt produced.

The PM limit was adjusted due to the addition of slag and cold mix. This revision did not require adjustments to the asphalt production, PM<sub>2.5</sub>, CO, VOC, or NO<sub>x</sub> limits. The source shall continue to comply with all other applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.

Compliance with these limits, combined with the potential to emit PM from all other emission units at this source, shall limit the source-wide total potential to emit of PM to less than 250 tons per 12 consecutive month period and shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

### **Federal Rule Applicability Determination**

#### New Source Performance Standards (NSPS)

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included as the result of this proposed revision. The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: 1675-27351-00114, issued on August 7, 2009.

#### National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (a) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included as the result of this proposed revision. The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: 167-27351-00114, issued on August 7, 2009.

#### Compliance Assurance Monitoring (CAM)

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

### **State Rule Applicability Determination**

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))  
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above. The source will continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))  
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the proposed revision is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. The source will continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.
- (c) 326 IAC 2-6 (Emission Reporting)  
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 2-8-4 (FESOP)  
This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

- (e) 326 IAC 5-1 (Opacity Limitations)  
The proposed revision is not subject to the requirements of 326 IAC 5-1. The source will continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.
- (f) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)  
Due to this revision, the source is still subject to the requirements of 326 IAC 6-4, because the storage piles will now include slag in addition to the previous aggregate components and have the potential to emit fugitive particulate emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4. The source will continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.
- (g) 326 IAC 8-5-2 (Miscellaneous operations: asphalt paving)  
Any paving application made after January 1, 1980, is subject to the requirements of 326 IAC 8-5-2. Pursuant to this rule, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:
- (1) penetrating prime coating
  - (2) stockpile storage
  - (3) application during the months of November, December, January, February and March.

The owner or operator will not process emulsified or cutback asphalt at this source unless proper approval has been obtained from IDEM, OAQ. Therefore, this source can comply with this rule.

The source will continue to comply with the applicable requirements and permit conditions as contained in FESOP No. 167-27351-00114, issued on August 7, 2009.

<b>Compliance Determination, Monitoring and Testing Requirements</b>
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- (a) There are no new compliance determination and monitoring requirements applicable to this revision. The source shall continue to comply with the applicable requirements and permit conditions contained in FESOP No. 167-27351-00114, issued August 7, 2009.
- (b) The testing requirements applicable to the proposed revision are as follows:  
  
In order to demonstrate compliance with the SO<sub>2</sub> limits, the Permittee shall perform SO<sub>2</sub> testing on Stack SV-1 within 180 days of the initial use of blast furnace slag its aggregate mix. This testing shall be conducted utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.
- (c) The source has proposed to change the testing requirement for its stack as described in its existing permit. As discussed in the Description of Proposed Revision section of this document, the revised testing requirements are as follows:
- (i) In order to demonstrate compliance with the PM<sub>10</sub> and PM<sub>2.5</sub> limits, the Permittee shall perform PM<sub>2.5</sub> and PM<sub>10</sub> testing on the dryer/mixer within 180 days of publication of the new or revised condensible PM test method(s) referenced in the U.S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers

(PM2.5), signed on May 8th, 2008, or five (5) years from the last valid compliance demonstration, whichever is later. This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing. PM10 and PM2.5 includes filterable and condensable PM.

- (ii) In order to demonstrate compliance with PM limits, the Permittee shall perform PM testing of the dryer/mixer within five (5) years from the last valid compliance demonstration, utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

<b>Proposed Changes</b>
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- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:
  - (1) The source has proposed to add the ability to use slag materials in its aggregate mix in the production of asphalt. The type of slag would primarily be blast furnace slag, with a maximum sulfur content of 1.5%. Therefore, the following changes have been made to the permit:
    - (i) Section A.1 has been changed to add the use of slag to the description of the source.
    - (ii) Condition D.1.1 has been changed to allow the use of slag and to describe SO<sub>2</sub> emission limits, limits for the volume of the slag used, the sulfur content of the slag, and the resulting new fuel limits associated with the use of slag in order to keep the source under the threshold limits.
    - (iii) Condition D.1.9(a) has been added to reflect the new testing requirements added as the result of the usage of slag.
    - (iv) Condition D.1.11 has been changed to define the options for compliance determination method(s) for the sulfur content of the slag.
    - (v) Condition D.1.15 has been changed to add a recordkeeping requirement resulting from the use of slag.
    - (vi) A Quarterly Report has been added to report the slag usage volume, the sulfur content, and to change existing reports to change the new fuel usage in order to demonstrate compliance.
  - (2) The source has proposed to add the ability to produce Cold Mix Asphalt Production, and has supplied information related to the materials and quantities to be used in that process. Therefore, the following changes have been made to the permit:
    - (i) Section A.1 has been changed to add the ability to produce cold mix asphalt to the description of the source and to correct a spelling error.
    - (ii) Condition D.1.3 has been changed to describe the limits for Cold Mix VOC Usage.
    - (iii) Condition D.1.16 has been changed to show the reporting requirements for VOC

Usage and volumes of Cold Mix produced.

- (iv) Quarterly Reports have been added to report the volume of Cold Mix VOC Usage in order to demonstrate compliance.
- (3) Due to the addition of slag and cold mix, the limited emission calculations have been updated. As a result, the PM and PM10 emission limits in Conditions D.1.2(b) and D.1.3(b) have been revised.
- (4) The source has proposed to add Natural Gas fuel equivalency ratios to both the No. 2 Fuel Oil and the No. 4 Fuel Oil fuels as shown in Condition D.1.5 of the existing permit. These factors were inadvertently omitted in the existing permit; additionally, ratios were incorrect due to No. 2 fuel oil emission factor for SO<sub>2</sub> was incorrect. Therefore, the permit has been changed as follows:
  - (i) Condition D.1.5 has been changed to reflect the equivalency factors for the use of natural gas, No. 2 fuel oil, and No. 4 fuel oil.
  - (ii) The natural gas limit has been revised as the result of the addition of slag and cold mix from 1,010.39 MMcf to 1,034.53 MMcf per twelve (12) consecutive month period.
- (5) The source has proposed to change the testing requirement for its stack as described in Condition D.1.9(a) in its existing permit. The existing permit requires stack testing within 180 days of the issuance of the existing permit. Testing was performed on July 31, 2007 and August 1, 2007, and demonstrated compliance to the limits established in the existing permit. Therefore, the source is proposing to change the frequency of testing to the standard of every five years from the date of a valid compliance demonstration. After consultation with the IDEM OAQ Compliance and Enforcement staff, the permit has been changed as follows:
  - (i) Condition D.1.9(a) has been changed to reflect the proper testing frequency required at the source.
- (6) The source has requested that the 2.115 MMBtu/hr heater, shown in Section A.2(b), be removed from the permit, since it has been removed from the source. The permit has been changed accordingly.
- (7) The source has requested to add the description of two storage tanks to Section A.3 Insignificant Activities that exists at the source. One tank is 8000 gallons, used for on-road fuel, storing No. 2 Fuel Oil. The other tank is 9500 gallons for off-road fuel, storing No. 2 fuel oil. The permit has been changed accordingly

The above changes are shown as follows: deleted language appears as ~~strikethrough~~, and new language appears as **bold** text:

A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary Drum Mix Asphalt Plant, which ~~does not~~ uses slag in its aggregate mix, and ~~does not~~ produces ~~void~~ **cold** mix.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

(a) ---

(b) ~~One (1) natural gas fired heater, with a maximum heat input capacity of 2.115 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV6, and using no control. Under NSPS 40 CFR Part 60, Subpart I, this source is considered an affected facility.~~

(c) ---

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

---

This stationary source also includes the following insignificant activities:

(a) ---

(d) **One (1) above -ground fuel storage tank for on-road fuel, and having a maximum storage capacity of 8,000 gallons; and**

(e) **One (1) above -ground fuel storage tank for off-road fuel, and having a maximum storage capacity of 9,500 gallons.**

D.1.1 FESOP and PSD Limits [326 IAC 2-8-4] [326 IAC 2-2]

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**The source uses slag in its aggregate mix for hot asphalt production.** Pursuant to 326 IAC 2-8-4 (FESOP), and in order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall ~~not use slag as an aggregate additive in its hot mix asphalt operations.~~ **comply with the following:**

(a) **SO<sub>2</sub> emissions from the slag processing shall not exceed seventy-four hundredths (0.74) pound per ton of slag processed;**

(b) **Volume of slag used in the aggregate mix shall not exceed fifty-five thousand (55,000) tons per twelve (12) consecutive month period, with compliance determined at the end of each month;**

Compliance with this requirement, combined with the SO<sub>2</sub> emissions from other units, limits the SO<sub>2</sub> emissions from the entire source to less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (PSD) are not applicable.

D.1.2 Particulate Matter (PM) [326 IAC 2-2]

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In order to render 326 IAC 2-2 not applicable, the Permittee shall comply with the following:

(a) ...

(b) The PM emissions from the dryer/mixer shall not exceed ~~0.255~~**0.42** pounds per ton of asphalt processed.

Compliance with these limitations, combined with the limited potential to emit from other emission units at this source, shall limit the source-wide total potential to emit PM to less than 250 tons per 12 consecutive month period and shall render 326 IAC 2-2 (PSD) not applicable.

D.1.3 Dryer and Mixer FESOP Limits [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) ...
- (b) The PM10 emissions from the dryer/mixer shall not exceed 0.1086 pounds per ton of asphalt processed.
- (f) **The cutback asphalt slow cure liquid binder usage (containing a maximum of 23.5% by weight of VOC solvent in the liquid binder and 25% by weight of VOC solvent evaporating) shall not exceed 240 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month.**
- ...

D.1.5 Fuel Usage and Equivalency Limits [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) Natural Gas
  - (1) The natural gas combusted in the dryer/mixer burner shall not exceed ~~4,040,39~~ **1,034.53** million standard cubic feet (MMcf) per twelve (12) consecutive month period, with compliance determined at the end of each month.

(b) No. 2 Fuel Oil

- (1) The No. 2 fuel oil combusted in the dryer/mixer burner shall not exceed ~~2,374,036~~ **2,011,140** gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (i) Every gallon of No. 4 fuel oil burned in the dryer/mixer burner shall be equivalent to ~~4.07~~ **1.18** gallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent input does not exceed the limit specified;
- (ii) **every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to 0.009 kilogallons of No. 2 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalent does not exceed the limit specified.**

...

(c) No. 4 Fuel Oil

- (1) The No. 4 fuel oil combusted in the dryer/mixer burner shall not exceed ~~2,217,936~~ **1,878,902** gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

For purposes of determining compliance, the following shall apply:

- (i) every gallon of No. 2 fuel oil burned in the dryer/mixer burner shall be equivalent to ~~0.93~~ **0.84** gallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 4 fuel oil and fuel oil equivalent input does not exceed the limit specified;

- (ii) every million cubic feet (MMCF) of natural gas combusted in the dryer/mixer burner shall be equivalent to 0.007 kilogallons of No. 4 fuel oil, based on SO<sub>2</sub> emissions, that the total gallons of No. 4 fuel oil and No. 4 fuel oil equivalent does not exceed the limit specified.

...

...

D.1.9 Testing Requirements [326 IAC 2-8-5(1), (4)] [326 IAC 2-1.1-11]

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Pursuant to 326 IAC 2-8-5(1), and in order to demonstrate compliance with Conditions D.1.1, D.1.2, and D.1.3 the Permittee shall perform testing as follows:

- (a) ~~Not later than one hundred and eighty (180) days after issuance of this permit, in order to demonstrate compliance with Condition D.1.2, the Permittee shall perform PM testing of the dryer/mixer utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.~~ **In order to demonstrate compliance with Condition D.1.1(a), the Permittee shall perform SO<sub>2</sub> testing on Stack SV-1 within 180 days of the initial use of blast furnace slag its aggregate mix. This testing shall be conducted utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C- Performance Testing.**
- (b) In order to demonstrate compliance with Conditions D.1.3(b) and D.1.3(c), the Permittee shall perform PM<sub>2.5</sub> and PM<sub>10</sub> testing on the dryer/mixer within 180 days of publication of the new or revised condensible PM test method(s) referenced in the U.S. EPA's Final Rule for Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM<sub>2.5</sub>), signed on May 8th, 2008, **or five (5) years from the last valid compliance demonstration, whichever is later.** This testing shall be conducted utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing. PM<sub>10</sub> and PM<sub>2.5</sub> includes filterable and condensible PM.
- (c) **In order to demonstrate compliance with Condition D.1.2(b), the Permittee shall perform PM testing of the dryer/mixer, within five (5) years from the last valid compliance demonstration, utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.**

D.1.10 Particulate Control [326 IAC 6-5-2]

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...

D.1.11 Sulfur Dioxide (SO<sub>2</sub>) Emissions and Sulfur Content [326 IAC 3-7-4]

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~~Compliance with the sulfur dioxide emissions and sulfur content limitations in Conditions D.1.1, D.1.5, and D.1.6 shall be determined utilizing one of the following options.~~

- (a) Pursuant to 326 IAC 2-8-4, compliance with Condition D.1.1(c) shall be determined utilizing one of the following options:
  - (1) Providing a vendor analysis of slag delivered, if accompanied by a vendor certification; or
  - (2) Analyzing a sample of the slag delivery to determine the sulfur content of the slag, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or any

**other procedures approved by IDEM, OAQ.**

- (ab) Pursuant to 326 IAC 3-7-4, ~~the Permittee shall demonstrate compliance with sulfur dioxide emissions and sulfur content limitations by:~~ **compliance with Conditions D.1.5 and D.1.6 shall be demonstrated utilizing one of the following options:**
- (1) Providing vendor analysis of heat content and sulfur content of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (i) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (ii) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) ~~Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the dryer/mixer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.~~

A determination of noncompliance pursuant to any of the methods specified in (b) or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

**D.1.15 Record Keeping Requirements**

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- (a) **To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with the following:**
- (1) **Actual slag usage and sulfur content for all slag used at the source per month;**
  - (2) **A certification, signed by the owner or operator, that the records of the slag supplier certifications represent all of the slag used during the period;**
  - (3) **If the slag supplier certification is used to demonstrate compliance, the following, at a minimum, shall be maintained:**
    - (i) **Slag supplier certification;**
    - (ii) **Name of the slag supplier; and**
    - (iii) **Statement from the slag supplier that certifies the sulfur content of the slag;**
- (ab) ...
- (bc) ...
- ...

**D.1.16 Reporting Requirements**

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A quarterly summary of the information to document compliance with Conditions **D.1.1**, **D.1.2**,

D.1.3, and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### Quarterly Report

##### FESOP Quarterly Report

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: No. 2 fuel oil and equivalent usage limit to limit SO<sub>2</sub> emissions  
Limit: The usage of No. 2 fuel oil and No. 2 fuel oil equivalents in the dryer/mixer burner shall not exceed ~~2,374,036~~ **2,011,140** gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total gallons of No. 2 fuel oil and No. 2 fuel oil equivalents input does not exceed the limit specified.

##### FESOP Quarterly Report

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: No. 4 fuel oil and equivalent usage limit to limit SO<sub>2</sub> emissions  
Limit: The usage of No. 4 fuel oil and No. 2 fuel oil equivalents in the dryer/mixer burner shall not exceed ~~2,247,936~~ **1,878,902** gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total gallons of No. 4 fuel oil and No. 4 fuel oil equivalents input does not exceed the limit specified.

##### FESOP Quarterly Report

Source Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
Mailing Address: P.O. Box 9778, Terre Haute, IN 47808  
FESOP Permit No.: F167-27351-00114  
Facility: Aggregate Dryer  
Parameter: Natural Gas and equivalent usage limit to limit NO<sub>x</sub> emissions  
Limit: The usage of natural gas and equivalents in the dryer/mixer burner shall not exceed ~~4040.39~~ **1034.53** million cubic feet (MMcf) per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in Condition D.1.5 shall be used such that the total Million cubic feet (MMcf) does not exceed the limit specified.

### FESOP Quarterly Report

**Source Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
**Mailing Address:** P.O. Box 9778, Terre Haute, IN 47808  
**FESOP Permit No.:** F167-28587-00114  
**Facility:** Dryer/Mixer  
**Parameter:** Slag Usage Limit  
**Limit:** The throughput of slag in the aggregate dryer shall not exceed 55,000 tons per twelve (12) consecutive month periods.

### FESOP Quarterly Report

**Source Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47803  
**Mailing Address:** P.O. Box 9778, Terre Haute, IN 47808  
**FESOP Permit No.:** F167-28587-00114  
**Facility:** Cold Mix Process  
**Parameter:** Cold Mix Liquid Binder Usage  
**Limit:** The cutback asphalt slow cure liquid binder usage shall not exceed 240 tons of VOC solvent per twelve (12) consecutive month periods.

### Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 19, 2009, with additional information received on November 16, 2009, and December 2, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Revision No. 167-28587-00114. The staff recommends to the Commissioner that this FESOP Significant Revision be approved.

### IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jack Harmon at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 233-4228 or toll free at 1-800-451-6027 extension 3-4228.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)



**Appendix A.1: Emissions Calculations  
Cold Mix Asphalt Production and Stockpiles  
Unlimited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon  
**Unlimited Emissions - Cold Mix**

The following calculations determine the amount of VOC and HAP emissions created from volatilization of solvent used as diluent in the liquid binder for cold mix asphalt production

Maximum Annual Asphalt Production = 55,000 tons/yr  
 Percent Asphalt Cement/Binder (weight %) = 5.0%  
 Maximum Asphalt Cement/Binder Throughput = 1,022 tons/yr

**Volatile Organic Compounds**

	Maximum weight % of VOC solvent in binder*	Weight % VOC solvent in binder that evaporates	Maximum VOC Solvent Usage (tons/yr)	PTE of VOC (tons/yr)
Cut back asphalt rapid cure (assuming gasoline or naphtha solvent)				
Cut back asphalt medium cure (assuming kerosene solvent)				
Cut back asphalt slow cure (assuming fuel oil solvent)	23.5%	25.0%	240.2	60.0
Emulsified asphalt with solvent (assuming water, emulsifying agent, and 15% fuel oil solvent)				
Other asphalt with solvent binder				
<b>Worst Case PTE of VOC =</b>				<b>60.0</b>

**Hazardous Air Pollutants**

Worst Case Total HAP Content of VOC solvent (weight %)* =	26.08%
Worst Case Single HAP Content of VOC solvent (weight %)* =	9.0% Xylenes
<b>PTE of Total HAPs (tons/yr) =</b>	<b>15.66</b>
<b>PTE of Single HAP (tons/yr) =</b>	<b>5.40 Xylenes</b>

**Hazardous Air Pollutant (HAP) Content (% by weight) For Various Petroleum Solvents\***

Volatile Organic HAP	CAS#	Hazardous Air Pollutant (HAP) Content (% by weight) For Various Petroleum Solvents				
		Gasoline	Kerosene	Diesel (#2) Fuel Oil	No. 2 Fuel Oil	No. 6 Fuel Oil
1,3-Butadiene	106-99-0	3.70E-5%				
2,2,4-Trimethylpentane	540-84-1	2.40%				
Acenaphthene	83-32-9		4.70E-5%		1.80E-4%	
Acenaphthylene	208-96-8		4.50E-5%		6.00E-5%	
Anthracene	120-12-7		1.20E-6%	5.80E-5%	2.80E-5%	5.00E-5%
Benzene	71-43-2	1.90%		2.90E-4%		
Benzo(a)anthracene	56-55-3			9.60E-7%	4.50E-7%	5.50E-4%
Benzo(a)pyrene	50-32-8			2.20E-6%	2.10E-7%	4.40E-5%
Benzo(b,h,i)perylene	191-24-2			1.20E-7%	5.70E-8%	
Biphenyl	92-52-4			6.30E-4%	7.20E-5%	
Chrysene	218-01-9			4.60E-7%	1.40E-6%	6.90E-4%
Ethylbenzene	100-41-4	1.70%		0.07%	3.40E-4%	
Fluoranthene	206-44-0		7.10E-6%	5.90E-5%	1.40E-5%	2.40E-4%
Fluorene	86-73-7		4.20E-5%	8.60E-4%	1.90E-4%	
Indeno(1,2,3-cd)pyrene	193-39-5			1.60E-7%		1.00E-4%
Methyl-tert-butylether	1634-04-4	0.33%				
Naphthalene	91-20-3	0.25%	0.31%	0.26%	0.22%	4.20E-5%
n-Hexane	110-54-3	2.40%				
Phenanthrene	85-01-8		8.60E-6%	8.80E-4%	7.90E-4%	2.10E-4%
Pyrene	129-00-0		2.40E-6%	4.60E-5%	2.90E-5%	2.30E-5%
Toluene	108-88-3	8.10%		0.18%	6.20E-4%	
Total Xylenes	1330-20-7	9.00%		0.50%	0.23%	
<b>Total Organic HAPs</b>		<b>26.08%</b>	<b>0.33%</b>	<b>1.29%</b>	<b>0.68%</b>	<b>0.19%</b>
<b>Worst Single HAP</b>		<b>9.00%</b>	<b>0.31%</b>	<b>0.50%</b>	<b>0.23%</b>	<b>0.07%</b>
		<b>Xylenes</b>	<b>Naphthalene</b>	<b>Xylenes</b>	<b>Xylenes</b>	<b>Chrysene</b>

**Methodology**

Maximum Asphalt Cement/Binder Throughput = [Annual Asphalt Production Limitation (tons/yr)] \* [Percent Asphalt Cement/Binder (weight %)]  
 Maximum VOC Solvent Usage (tons/yr) = [Maximum Asphalt Cement/Binder Throughput (tons/yr)] \* [Maximum Weight % of VOC Solvent in Binder]  
 PTE of VOC (tons/yr) = [Weight % VOC solvent in binder that evaporates] \* [Maximum VOC Solvent Usage (tons/yr)]  
 PTE of Total HAPs (tons/yr) = [Worst Case Total HAP Content of VOC solvent (weight %)] \* [Worst Case Limited PTE of VOC (tons/yr)]  
 PTE of Single HAP (tons/yr) = [Worst Case Single HAP Content of VOC solvent (weight %)] \* [Worst Case Limited PTE of VOC (tons/yr)]  
 \*Source: Petroleum Liquids. Potter, T.L. and K.E. Simmons. 1998. Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2. Composition of Petroleum Mixtures. The Association for Environmental Health and Science. Available on the Internet at: <http://www.aehs.com/publications/catalog/contents/tph.htm>

**Abbreviations**

VOC = Volatile Organic Compounds  
 PTE = Potential to Emit

**Appendix A.1: Emissions Calculations  
 Dryer/Mixer Slag Processing  
 Unlimited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

The following calculations determine the unlimited emissions from the processing of slag in the aggregate drying/mixing

Maximum Annual Slag Usage\* =  ton/yr  % sulfur

	Emission Factor (lb/ton)**	Unlimited Potential to Emit (tons/yr)
Criteria Pollutant	Slag Processing	Slag Processing
SO2	0.74	20.4

**Appendix A.2: Emissions Calculations  
Limited Emission Summary**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

**Asphalt Plant Limitations**

Maximum Hourly Asphalt Production =	400	ton/hr								
Annual Asphalt Production Limitation =	1,400,000	ton/yr								
Slag Usage Limitation =	55,000	ton/yr	1.50	% sulfur						
Natural Gas Limitation =	1,034.53	MMCF/yr								
No. 2 Fuel Oil Limitation =	2,011,140	gal/yr, and	0.48	% sulfur						
No. 4 Fuel Oil Limitation =	1,878,902	gal/yr, and	0.54	% sulfur						
Residual (No. 5 or No. 6) Fuel Oil Limitation =	0	gal/yr, and	0.00	% sulfur						
Propane Limitation =	0	gal/yr, and	0.00	gr/100 ft3 sulfur						
Butane Limitation =	0	gal/yr, and	0.00	gr/100 ft3 sulfur						
Used/Waste Oil Limitation =	0	gal/yr, and	0.00	% sulfur	0.50	% ash	0.200	% chlorine,	0.010	% lead
Diesel Engine Oil Limitation =	0	gal/yr, and								
PM Dryer/Mixer Limitation =	0.242	lb/ton of asphalt production								
PM10 Dryer/Mixer Limitation =	0.106	lb/ton of asphalt production								
PM2.5 Dryer/Mixer Limitation =	0.125	lb/ton of asphalt production								
CO Dryer/Mixer Limitation =	0.130	lb/ton of asphalt production								
VOC Dryer/Mixer Limitation =	0.032	lb/ton of asphalt production								
Slag SO2 Dryer/Mixer Limitation =	0.740	lb/ton of slag processed								
Cold Mix Asphalt VOC Usage Limitation =	60.0	tons/yr								

**Limited/Controlled Emissions**

Process Description	Limited/Controlled Potential Emissions (tons/year)								
	Criteria Pollutants							Hazardous Air Pollutants	
	PM	PM10	PM2.5	SO2	NOx	VOC	CO	Total HAPs	Worst Case HAP
<b>Ducted Emissions</b>									
Dryer Fuel Combustion (worst case)	6.58	7.80	7.80	76.10	98.28	2.84	43.45	1.10	0.93 (hydrogen chloride)
Dryer/Mixer (Process)	169.49	74.41	87.62	40.60	38.50	22.40	91.00	7.46	2.17 (formaldehyde)
Dryer/Mixer Slag Processing	0	0	0	20.35	0	0	0	0	0
Hot Oil Heater Fuel Combustion (worst case)	0.07	0.12	0.12	2.55	0.72	0.03	0.42	0.01	0.009 (hexane)
<b>Worst Case Emissions*</b>	<b>169.56</b>	<b>74.52</b>	<b>87.74</b>	<b>99.00</b>	<b>99.00</b>	<b>22.43</b>	<b>91.42</b>	<b>7.47</b>	<b>2.17 (hydrogen chloride)</b>
<b>Fugitive Emissions</b>									
Asphalt Load-Out, Silo Filling, On-Site Yard	0.78	0.78	0.78	0	0	11.99	2.02	0.20	0.06 (formaldehyde)
Material Storage Piles	2.23	0.78	0.78	0	0	0	0	0	0
Material Processing and Handling	4.52	2.14	0.32	0	0	0	0	0	0
Material Crushing, Screening, and Conveying	22.21	8.11	8.11	0	0	0	0	0	0
Unpaved and Paved Roads (worst case)	49.70	12.67	1.27	0	0	0	0	0	0
Cold Mix Asphalt Production	0	0	0	0	0	60.00	0	15.65	5.40 (xylenes)
Gasoline Fuel Transfer and Dispensing	0	0	0	0	0	0.00	0	0.09	0.00 (xylenes)
Volatile Organic Liquid Storage Vessels	0	0	0	0	0	negl	0	negl	negl
<b>Total Fugitive Emissions</b>	<b>79.44</b>	<b>24.48</b>	<b>11.26</b>	<b>0</b>	<b>0</b>	<b>71.99</b>	<b>2.02</b>	<b>15.94</b>	<b>5.40 (xylenes)</b>
<b>Totals Limited/Controlled Emissions</b>	<b>249.00</b>	<b>99.00</b>	<b>99.00</b>	<b>99.00</b>	<b>99.00</b>	<b>94.42</b>	<b>93.44</b>	<b>23.41</b>	<b>5.40 (xylenes)</b>

negl = negligible

Worst Case Fuel Combustion is based on the fuel with the highest emissions for each specific pollutant.

\*Worst Case Emissions (tons/yr) = Worst Case Emissions from Dryer Fuel Combustion and Dryer/Mixer + Dryer/Mixer Slag Processing + Worst Case Emissions from Hot Oil Heater Fuel Combustion  
 Fuel component percentages provided by the source.

**Appendix A.2: Emissions Calculations**  
**Dryer/Mixer Fuel Combustion with Maximum Capacity > 100 MMBtu/hr**  
**Limited Emissions**

Company Name: **Wabash Valley Asphalt, LLC**  
 Source Address: **5600 East Margaret Avenue, Terre Haute, Indiana 47808**  
 Permit Number: **167-28587-00114**  
 Reviewer: **Jack Harmon**

The following calculations determine the limited emissions created from the combustion of natural gas, fuel oil, propane, butane, or used/waste oil in the dryer/mixer and all other fuel combustion sources at the source.

**Production and Fuel Limitations**

Maximum Hourly Asphalt Production =	400	ton/hr
Annual Asphalt Production Limitation =	1,400,000	ton/yr
Natural Gas Limitation =	1,035	MMCF/yr
No. 2 Fuel Oil Limitation =	2,011,140	gal/yr, and
No. 4 Fuel Oil Limitation =	1,878,902	gal/yr, and
Residual (No. 5 or No. 6) Fuel Oil Limitation =	0	gal/yr, and
Propane Limitation =	0	gal/yr, and
Butane Limitation =	0	gal/yr, and
Used/Waste Oil Limitation =	0	gal/yr, and
Diesel Engine Oil Limitation =	0	gal/yr, and

	0.48	% sulfur
	0.54	% sulfur
	0.00	% sulfur
	0.00	gr/100 ft3 sulfur
	0.00	gr/100 ft3 sulfur
	0.00	% sulfur
	0.50	% ash
	0.200	% chlorine,
	0.010	% lead

**Limited Emissions**

Criteria Pollutant	Emission Factor (units)									Limited Potential to Emit (tons/yr)								
	Natural Gas (lb/MMCF)	No. 2 Fuel Oil (lb/kgal)	No. 4 Fuel Oil* (lb/kgal)	Residual Fuel Oil (lb/kgal)	Propane (lb/kgal)	Butane (lb/kgal)	Used/Waste Oil (lb/kgal)	Diesel Engine (lb/kgal)	Natural Gas (tons/yr)	No. 2 Fuel Oil (tons/yr)	No. 4 Fuel Oil (tons/yr)	Residual Fuel Oil (tons/yr)	Propane (tons/yr)	Butane (tons/yr)	Used/Waste Oil (tons/yr)	Diesel Engine (tons/yr)	Worse Case Fuel (tons/yr)	
PM	1.9	2	7	3.22	0.5	0.6	32	43.4	0.98	2.01	6.58	0.00	0.000	0.000	0.00	0.00	6.58	
PM10	7.6	3.3	8.3	4.72	0.5	0.6	25.5	43.4	3.93	3.32	7.80	0.00	0.000	0.000	0.00	0.00	7.80	
SO2	0.6	75.7	81.0	0.0	0.000	0.000	0.0	40.6	0.31	76.10	76.10	0.00	0.000	0.000	0.00	0.00	76.10	
NOx	190	24.0	47.0	47.0	13.0	15.0	19.0	617.4	98.28	24.13	44.15	0.00	0.00	0.00	0.00	0.00	98.28	
VOC	5.5	0.20	0.20	0.28	1.00	1.10	1.0	49.00	2.84	0.20	0.19	0.00	0.00	0.00	0.00	0.00	2.84	
CO	84	5.0	5.0	5.0	7.5	8.4	5.0	133.0	43.45	5.03	4.70	0.00	0.00	0.00	0.00	0.00	43.45	
<b>Hazardous Air Pollutant</b>																		
HCl							13.2								0.00		0.00	
Antimony			5.25E-03	5.25E-03			negl				4.93E-03	0.00E+00			negl		4.9E-03	
Arsenic	2.0E-04	5.6E-04	1.32E-03	1.32E-03			1.1E-01		1.0E-04	5.63E-04	1.24E-03	0.00E+00			0.00E+00		1.2E-03	
Beryllium	1.2E-05	4.2E-04	2.78E-05	2.78E-05			negl		6.2E-06	4.22E-04	2.61E-05	0.00E+00			negl		4.2E-04	
Cadmium	1.1E-03	4.2E-04	3.98E-04	3.98E-04			9.3E-03		5.7E-04	4.22E-04	3.74E-04	0.00E+00			0.00E+00		5.7E-04	
Chromium	1.4E-03	4.2E-04	8.45E-04	8.45E-04			2.0E-02		7.2E-04	4.22E-04	7.94E-04	0.00E+00			0.00E+00		7.9E-04	
Cobalt	8.4E-05		6.02E-03	6.02E-03			2.1E-04		4.3E-05		5.66E-03	0.00E+00			0.00E+00		5.7E-03	
Lead	5.0E-04	1.3E-03	1.51E-03	1.51E-03		0.55			2.6E-04	1.27E-03	1.42E-03	0.00E+00			0.0E+00		0.00	
Manganese	3.8E-04	8.4E-04	3.00E-03	3.00E-03			6.8E-02		2.0E-04	8.4E-04	2.82E-03	0.00E+00			0.00E+00		0.00	
Mercury	2.6E-04	4.2E-04	1.13E-04	1.13E-04					1.3E-04	4.22E-04	1.06E-04	0.00E+00			0.00E+00		4.2E-04	
Nickel	2.1E-03	4.2E-04	8.45E-02	8.45E-02			1.1E-02		1.1E-03	4.22E-04	7.94E-02	0.00E+00			0.00E+00		0.079	
Selenium	2.4E-05	2.1E-03	6.83E-04	6.83E-04			negl		1.2E-05	2.11E-03	6.42E-04	0.00E+00			negl		2.1E-03	
1,1,1-Trichloroethane			2.36E-04	2.36E-04							2.22E-04	0.00E+00					2.2E-04	
1,3-Butadiene							5.47E-03								0.00E+00		0.0E+00	
Acetaldehyde							1.07E-01								0.00E+00		0.0E+00	
Acrolein							1.30E-02								0.00E+00		0.0E+00	
Benzene	2.1E-03		2.14E-04	2.14E-04			1.31E-01		1.1E-03		2.01E-04	0.00E+00			0.00E+00		1.1E-03	
Bis(2-ethylhexyl)phthalate							2.2E-03								0.00E+00		0.0E+00	
Dichlorobenzene	1.2E-03						8.0E-07		6.2E-04						0.00E+00		6.2E-04	
Ethylbenzene			6.36E-05	6.36E-05							5.97E-05	0.00E+00					6.0E-05	
Formaldehyde	7.5E-02	6.10E-02	3.30E-02	3.30E-02			1.65E-01		3.9E-02	6.13E-02	3.10E-02	0.00E+00			0.00E+00		0.061	
Hexane	1.8E+00								0.93								0.931	
Phenol							2.4E-03								0.00E+00		0.0E+00	
Toluene	3.4E-03		6.20E-03	6.20E-03			5.73E-02		1.8E-03		5.82E-03	0.00E+00			0.00E+00		5.8E-03	
Total PAH Haps	negl		1.13E-03	1.13E-03			3.9E-02		negl		1.06E-03	0.00E+00			0.00E+00		1.1E-03	
Polycyclic Organic Matter		3.30E-03								3.32E-03							3.3E-03	
Xylene			1.09E-04	1.09E-04			3.99E-02				1.02E-04	0.00E+00			0.00E+00		1.0E-04	
<b>Total HAPs</b>									<b>0.98</b>	<b>0.07</b>	<b>0.14</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>1.10</b>	

**Methodology**

Natural Gas: Limited Potential to Emit (tons/yr) = (Natural Gas Limitation (MMCF/yr)) \* (Emission Factor (lb/MMCF)) \* (ton/2000 lbs)  
 All Other Fuels: Limited Potential to Emit (tons/yr) = (Fuel Limitation (gals/yr)) \* (Emission Factor (lb/kgal)) \* (kgal/1000 gal) \* (ton/2000 lbs)  
 Sources of AP-42 Emission Factors for fuel combustion:  
 Natural Gas: AP-42 Chapter 1.4 (dated 7/98), Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4  
 No. 2, No. 4, and No. 6 Fuel Oil: AP-42 Chapter 1.3 (dated 9/98), Tables 1.3-1, 1.3-2, 1.3-3, 1.3-8, 1.3-9, 1.3-10, and 1.3-11  
 Propane and Butane: AP-42 Chapter 1.5 (dated 7/08), Tables 1.5-1 (assuming PM = PM10)  
 Waste Oil: AP-42 Chapter 1.11 (dated 10/96), Tables 1.11-1, 1.11-2, 1.11-3, 1.11-4, and 1.11-5  
 Diesel Engine Oil: AP-42 Chapter 3.3 (dated 10/96), Tables 3.3-1 and 3.3-2

\*Since there are no specific AP-42 HAP emission factors for combustion of No. 4 fuel oil, it was assumed that HAP emissions from combustion of No. 4 fuel oil were equal to combustion of residual or No. 6 fuel oil.

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 SO2 = Sulfur Dioxide  
 NOx = Nitrogen Oxides  
 VOC = Volatile Organic Compounds  
 CO = Carbon Monoxide  
 HAP = Hazardous Air Pollutant  
 HCl = Hydrogen Chloride  
 PAH = Polycyclic Aromatic Hydrocarbon

**Appendix A.2: Emissions Calculations  
Dryer/Mixer  
Limited Process Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

The following calculations determine the limited emissions from the aggregate drying/mixing

Maximum Hourly Asphalt Production =	400	ton/hr
Annual Asphalt Production Limitation =	1,400,000	ton/yr
PM Dryer/Mixer Limitation =	0.242	lb/ton of asphalt production
PM10 Dryer/Mixer Limitation =	0.106	lb/ton of asphalt production
PM2.5 Dryer/Mixer Limitation =	0.125	lb/ton of asphalt production
CO Dryer/Mixer Limitation =	0.130	lb/ton of asphalt production
VOC Dryer/Mixer Limitation =	0.032	lb/ton of asphalt production

Criteria Pollutant	Emission Factor or Limitation (lb/ton)			Limited/Controlled Potential to Emit (tons/yr)			Worse Case PTE
	Drum-Mix Plant (dryer/mixer, controlled by fabric filter)			Drum-Mix Plant (dryer/mixer, controlled by fabric filter)			
	Natural Gas	No. 2 Fuel Oil	Waste Oil	Natural Gas	No. 2 Fuel Oil	Waste Oil	
PM*	0.242	0.242	0.242	169.5	169.5	169.5	169.5
PM10*	0.106	0.106	0.106	74.4	74.4	74.4	74.4
PM2.5*	0.125	0.125	0.125	87.6	87.6	87.6	87.6
SO2**	0.003	0.011	0.058	2.4	7.7	40.6	40.6
NOx**	0.026	0.055	0.055	18.2	38.5	38.5	38.5
VOC**	0.032	0.032	0.032	22.4	22.4	22.4	22.4
CO**	0.130	0.130	0.130	91.0	91.0	91.0	91.0
<b>Hazardous Air Pollutant</b>							
HCl			2.10E-04			0.15	0.15
Antimony	1.80E-07	1.80E-07	1.80E-07	1.26E-04	1.26E-04	1.26E-04	1.26E-04
Arsenic	5.60E-07	5.60E-07	5.60E-07	3.92E-04	3.92E-04	3.92E-04	3.92E-04
Beryllium	negl	negl	negl	negl	negl	negl	0.00E+00
Cadmium	4.10E-07	4.10E-07	4.10E-07	2.87E-04	2.87E-04	2.87E-04	2.87E-04
Chromium	5.50E-06	5.50E-06	5.50E-06	3.85E-03	3.85E-03	3.85E-03	3.85E-03
Cobalt	2.60E-08	2.60E-08	2.60E-08	1.82E-05	1.82E-05	1.82E-05	1.82E-05
Lead	6.20E-07	1.50E-05	1.50E-05	4.34E-04	1.05E-02	1.05E-02	1.05E-02
Manganese	7.70E-06	7.70E-06	7.70E-06	5.39E-03	5.39E-03	5.39E-03	5.39E-03
Mercury	2.40E-07	2.60E-06	2.60E-06	1.68E-04	1.82E-03	1.82E-03	1.82E-03
Nickel	6.30E-05	6.30E-05	6.30E-05	4.41E-02	4.41E-02	4.41E-02	4.41E-02
Selenium	3.50E-07	3.50E-07	3.50E-07	2.45E-04	2.45E-04	2.45E-04	2.45E-04
2,2,4 Trimethylpentane	4.00E-05	4.00E-05	4.00E-05	2.80E-02	2.80E-02	2.80E-02	2.80E-02
Acetaldehyde			1.30E-03			0.91	0.91
Acrolein			2.60E-05			1.82E-02	1.82E-02
Benzene	3.90E-04	3.90E-04	3.90E-04	0.27	0.27	0.27	0.27
Ethylbenzene	2.40E-04	2.40E-04	2.40E-04	0.17	0.17	0.17	0.17
Formaldehyde	3.10E-03	3.10E-03	3.10E-03	2.17	2.17	2.17	2.17
Hexane	9.20E-04	9.20E-04	9.20E-04	0.64	0.64	0.64	0.64
Methyl chloroform	4.80E-05	4.80E-05	4.80E-05	0.03	0.03	0.03	0.03
MEK			2.00E-05			0.01	0.01
Propionaldehyde			1.30E-04			0.09	0.09
Quinone			1.60E-04			0.11	0.11
Toluene	1.50E-04	2.90E-03	2.90E-03	0.11	2.03	2.03	2.03
Total PAH Haps	1.90E-04	8.80E-04	8.80E-04	0.13	0.62	0.62	0.62
Xylene	2.00E-04	2.00E-04	2.00E-04	0.14	0.14	0.14	0.14
<b>Total HAPs</b>							<b>7.46</b>
<b>Worst Single HAP</b>							<b>2.17 (formaldehyde)</b>

**Methodology**  
 Limited/Controlled Potential to Emit (tons/yr) = (Annual Asphalt Production Limitation (tons/yr)) \* (Emission Factor (lb/ton)) \* (ton/2000 lbs)

Emission Factors from AP-42 Chapter 11.1 (dated 3/04), Tables 11.1-3, 11.1-4, 11.1-7, 11.1-8, 11.1-10, and 11.1-12

Natural gas, No. 2 fuel oil, and waste oil represent the worst possible emissions scenario. AP-42 did not provide emission factors for any other fuels.

\* PM, PM10, and PM2.5 AP-42 emission factors based on drum mix dryer fired with natural gas, propane, fuel oil, and waste oil. According to AP-42 fuel type does not significantly effect PM, PM10, and PM2.5 emissions.

\*\* SO2, NOx, and VOC AP-42 emission factors are for natural gas, No. 2 fuel oil, and waste oil only.

\*\*\* CO AP-42 emission factor determined by combining data from drum mix dryer fired with natural gas, No. 6 fuel oil, and No. 2 fuel oil to develop single CO emission factor.

**Abbreviations**

VOC - Volatile Organic Compounds  
 HCl = Hydrogen Chloride  
 SO2 = Sulfur Dioxide

HAP = Hazardous Air Pollutant  
 PAH = Polyaromatic Hydrocarbon

**Appendix A.2: Emissions Calculations  
Dryer/Mixer Slag Processing  
Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

*If slag not used enter value of 0, do not delete limited-dryer-mixer-slag worksheet.*

The following calculations determine the limited emissions from the processing of slag in the aggregate drying/mixing

Slag Usage Limitation =  ton/yr  
 SO2 Slag Limitation =  lb/ton of slag processed       % sulfur

	Emission Factor or Limitation (lb/ton)*	Limited Potential to Emit (tons/yr)
Criteria Pollutant	Slag Processing	Slag Processing
SO2	0.740	20.4

**Methodology**

\* Testing results for Slag, obtained January 9, 2009 from similar operations at Rieth-Riley Construction Co., Inc. facility located in Valparaiso, IN (permit #127-27075-05241), produced an Emission Factor of 0.54 lb/ton from slag containing 1.10% sulfur content. The source has requested a safety factor of 0.20 lb/ton be added to the tested value for use at this location to allow for a sulfur content up to 1.5%.

Limited Potential to Emit SO2 from Slag (tons/yr) = (Slag Usage Limitation (ton/yr)) \* [Limited Emission Factor (lb/ton)] \* [ton/2000 lbs]

**Abbreviations**

SO2 = Sulfur Dioxide

**Appendix A.2: Emissions Calculations**

**Hot Oil Heater  
Fuel Combustion with Maximum Capacity < 100 MMBtu/hr  
Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Location:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

Maximum Hot Oil Heater Fuel Input Rate = 1.15 MMBtu/hr  
 Natural Gas Usage = 10 MMCF/yr  
 No. 2 Fuel Oil Usage = 71,957 gal/yr, and 0.48 % sulfur

**Unlimited/Uncontrolled Emissions**

Criteria Pollutant	Emission Factor (units)		Unlimited/Uncontrolled Potential to Emit (tons/yr)		
	Hot Oil Heater		Hot Oil Heater		
	Natural Gas (lb/MMCF)	No. 2 Fuel Oil (lb/kgal)	Natural Gas (tons/yr)	No. 2 Fuel Oil (tons/yr)	Worse Case Fuel (tons/yr)
PM	1.9	2.0	0.010	0.072	0.07
PM10/PM2.5	7.6	3.3	0.038	0.119	0.12
SO2	0.6	71.0	0.003	2.554	2.55
NOx	100	20.0	0.504	0.720	0.72
VOC	5.5	0.20	0.028	0.007	0.03
CO	84	5.0	0.423	0.180	0.42
<b>Hazardous Air Pollutant</b>					
Arsenic	2.0E-04	5.6E-04	1.0E-06	2.01E-05	2.0E-05
Beryllium	1.2E-05	4.2E-04	6.0E-08	1.51E-05	1.5E-05
Cadmium	1.1E-03	4.2E-04	5.5E-06	1.51E-05	1.5E-05
Chromium	1.4E-03	4.2E-04	7.1E-06	1.51E-05	1.5E-05
Cobalt	8.4E-05		4.2E-07		4.2E-07
Lead	5.0E-04	1.3E-03	2.5E-06	4.53E-05	4.5E-05
Manganese	3.8E-04	8.4E-04	1.9E-06	3.02E-05	3.0E-05
Mercury	2.6E-04	4.2E-04	1.3E-06	1.51E-05	1.5E-05
Nickel	2.1E-03	4.2E-04	1.1E-05	1.51E-05	1.5E-05
Selenium	2.4E-05	2.1E-03	1.2E-07	7.56E-05	7.6E-05
Benzene	2.1E-03		1.1E-05		1.1E-05
Dichlorobenzene	1.2E-03		6.0E-06		6.0E-06
Ethylbenzene					0
Formaldehyde	7.5E-02	6.10E-02	3.8E-04	2.19E-03	0.002
Hexane	1.8E+00		0.01		0.009
Phenol					0
Toluene	3.4E-03		1.7E-05		1.7E-05
Total PAH Haps	negl				0
Polycyclic Organic Matter		3.30E-03		1.19E-04	1.2E-04
<b>Total HAPs =</b>			<b>9.5E-03</b>	<b>2.6E-03</b>	<b>0.012</b>

**Methodology**

Equivalent Natural Gas Usage (MMCF/yr) = [Maximum Fuel Input Rate (MMBtu/hr)] \* [8,760 hrs/yr] \* [1 MMCF/1,000 MMBtu]

Equivalent Oil Usage (gal/yr) = [Maximum Fuel Input Rate (MMBtu/hr)] \* [8,760 hrs/yr] \* [1 gal/0.140 MMBtu]

Natural Gas: Unlimited/Uncontrolled Potential to Emit (tons/yr) = [Maximum Natural Gas Usage (MMCF/yr)] \* [Emission Factor (lb/MMCF)] \* [ton/2000 lbs]

All Other Fuels: Unlimited/Uncontrolled Potential to Emit (tons/yr) = [Maximum Fuel Usage (gals/yr)] \* [Emission Factor (lb/kgal)] \* [kgal/1000 gal] \* [ton/2000 lbs]

Sources of AP-42 Emission Factors for fuel combustion:

Natural Gas : AP-42 Chapter 1.4 (dated 7/98), Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4

No. 2 Fuel Oil: AP-42 Chapter 1.3 (dated 9/98), Tables 1.3-1, 1.3-2, 1.3-3, 1.3-8, 1.3-9, 1.3-10, and 1.3-11

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 SO2 = Sulfur Dioxide  
 NOx = Nitrous Oxides  
 VOC - Volatile Organic Compounds

CO = Carbon Monoxide  
 HAP = Hazardous Air Pollutant  
 HCl = Hydrogen Chloride  
 PAH = Polyaromatic Hydrocarbon

**Appendix A.2: Emissions Calculations  
Asphalt Load-Out, Silo Filling, and Yard Emissions  
Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

The following calculations determine the limited fugitive emissions from hot asphalt mix load-out, silo filling, and on-site yard for a drum mix hot mix asphalt plant

Asphalt Temperature, T =	325	F
Asphalt Volatility Factor, V =	-0.5	
Annual Asphalt Production Limitation =	1,400,000	tons/yr

Pollutant	Emission Factor (lb/ton asphalt)			Limited Potential to Emit (tons/yr)			
	Load-Out	Silo Filling	On-Site Yard	Load-Out	Silo Filling	On-Site Yard	Total
Total PM*	5.2E-04	5.9E-04	NA	0.37	0.41	NA	0.78
Organic PM	3.4E-04	2.5E-04	NA	0.24	0.178	NA	0.42
TOC	0.004	0.012	0.001	2.91	8.53	0.770	12.2
CO	0.001	0.001	3.5E-04	0.94	0.826	0.246	2.02

NA = Not Applicable (no AP-42 Emission Factor)

<b>PM/HAPs</b>	<b>0.017</b>	<b>0.020</b>	<b>0</b>	<b>0.037</b>
<b>VOC/HAPs</b>	<b>0.043</b>	<b>0.108</b>	<b>0.011</b>	<b>0.163</b>
<b>non-VOC/HAPs</b>	<b>2.2E-04</b>	<b>2.3E-05</b>	<b>5.9E-05</b>	<b>3.1E-04</b>
<b>non-VOC/non-HAPs</b>	<b>0.21</b>	<b>0.12</b>	<b>0.06</b>	<b>0.39</b>

<b>Total VOCs</b>	<b>2.74</b>	<b>8.53</b>	<b>0.7</b>	<b>12.0</b>
<b>Total HAPs</b>	<b>0.06</b>	<b>0.13</b>	<b>0.011</b>	<b>0.20</b>
		<b>Worst Single HAP</b>		<b>0.062</b>
				<b>(formaldehyde)</b>

**Methodology**

The asphalt temperature and volatility factor were provided by the source.

Limited Potential to Emit (tons/yr) = (Annual Asphalt Production Limitation (tons/yr)) \* (Emission Factor (lb/ton)) \* (ton/2000 lbs)

Emission Factors from AP-42 Chapter 11.1 (dated 3/04), Tables 11.1-14, 11.1-15, and 11.1-16

Plant Load-Out Emission Factor Equations (AP-42 Table 11.1-14)::

$$\text{Total PM/PM10 Ef} = 0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{Organic PM Ef} = 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{TOC Ef} = 0.0172(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{CO Ef} = 0.00558(-V)e^{((0.0251)(T+460)-20.43)}$$

Silo Filling Emission Factor Equations (AP-42 Table 11.1-14):

$$\text{PM/PM10 Ef} = 0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{Organic PM Ef} = 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{TOC Ef} = 0.0504(-V)e^{((0.0251)(T+460)-20.43)}$$

$$\text{CO Ef} = 0.00488(-V)e^{((0.0251)(T+460)-20.43)}$$

On Site Yard CO emissions estimated by multiplying the TOC emissions by 0.32

\*No emission factors available for PM10 or PM2.5, therefore IDEM assumes PM10 and PM2.5 are equivalent to Total PM.

**Abbreviations**

TOC = Total Organic Compounds

CO = Carbon Monoxide

PM = Particulate

Matter

PM10 = Particulate Matter (<10 um)

PM2.5 = Particulate Matter (<2.5 um)

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

**Appendix A.2: Emissions Calculations**  
**Asphalt Load-Out, Silo Filling, and Yard Emissions (continued)**  
**Limited Emissions**

Company Name: Wabash Valley Asphalt, LLC  
 Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
 Permit Number: 167-28587-00114  
 Reviewer: Jack Harmon

**Organic Particulate-Based Compounds (Table 11.1-15)**

Pollutant	CASRN	Category	HAP Type	Source	Speciation Profile		Limited Potential to Emit (tons/yr)			
					Load-out and Onsite Yard (% by weight of Total Organic PM)	Silo Filling and Asphalt Storage Tank (% by weight of Total Organic PM)	Load-out	Silo Filling	Onsite Yard	Total
<b>PAH HAPs</b>										
Acenaphthene	83-32-9	PM/HAP	POM	Organic PM	0.26%	0.47%	6.2E-04	8.4E-04	NA	1.5E-03
Acenaphthylene	208-96-8	PM/HAP	POM	Organic PM	0.028%	0.014%	6.7E-05	2.5E-05	NA	9.2E-05
Anthracene	120-12-7	PM/HAP	POM	Organic PM	0.07%	0.13%	1.7E-04	2.3E-04	NA	4.0E-04
Benzo(a)anthracene	56-55-3	PM/HAP	POM	Organic PM	0.019%	0.056%	4.5E-05	1.0E-04	NA	1.4E-04
Benzo(b)fluoranthene	205-99-2	PM/HAP	POM	Organic PM	0.0076%	0	1.8E-05	0	NA	1.8E-05
Benzo(k)fluoranthene	207-08-9	PM/HAP	POM	Organic PM	0.0022%	0	5.3E-06	0	NA	5.3E-06
Benzo(g,h,i)perylene	191-24-2	PM/HAP	POM	Organic PM	0.0019%	0	4.5E-06	0	NA	4.5E-06
Benzo(a)pyrene	50-32-8	PM/HAP	POM	Organic PM	0.0023%	0	5.5E-06	0	NA	5.5E-06
Benzo(e)pyrene	192-97-2	PM/HAP	POM	Organic PM	0.0078%	0.0095%	1.9E-05	1.7E-05	NA	3.5E-05
Chrysene	218-01-9	PM/HAP	POM	Organic PM	0.103%	0.21%	2.5E-04	3.7E-04	NA	6.2E-04
Dibenz(a,h)anthracene	53-70-3	PM/HAP	POM	Organic PM	0.00037%	0	8.8E-07	0	NA	8.8E-07
Fluoranthene	206-44-0	PM/HAP	POM	Organic PM	0.05%	0.15%	1.2E-04	2.7E-04	NA	3.9E-04
Fluorene	86-73-7	PM/HAP	POM	Organic PM	0.77%	1.01%	1.8E-03	1.8E-03	NA	3.6E-03
Indeno(1,2,3-cd)pyrene	193-39-5	PM/HAP	POM	Organic PM	0.00047%	0	1.1E-06	0	NA	1.1E-06
2-Methylnaphthalene	91-57-6	PM/HAP	POM	Organic PM	2.38%	5.27%	5.7E-03	9.4E-03	NA	0.015
Naphthalene	91-20-3	PM/HAP	POM	Organic PM	1.25%	1.82%	3.0E-03	3.2E-03	NA	6.2E-03
Perylene	198-55-0	PM/HAP	POM	Organic PM	0.022%	0.03%	5.3E-05	5.3E-05	NA	1.1E-04
Phenanthrene	85-01-8	PM/HAP	POM	Organic PM	0.81%	1.80%	1.9E-03	3.2E-03	NA	5.1E-03
Pyrene	129-00-0	PM/HAP	POM	Organic PM	0.15%	0.44%	3.6E-04	7.8E-04	NA	1.1E-03
<b>Total PAH HAPs</b>							<b>0.014</b>	<b>0.020</b>	<b>NA</b>	<b>0.034</b>
<b>Other semi-volatile HAPs</b>										
Phenol		PM/HAP	---	Organic PM	1.18%	0	2.8E-03	0	0	2.8E-03

NA = Not Applicable (no AP-42 Emission Factor)

**Methodology**

Limited Potential to Emit (tons/yr) = [Speciation Profile (%)] \* [Organic PM (tons/yr)]  
 Speciation Profiles from AP-42 Chapter 11.1 (dated 3/04), Tables 11.1-15 and 11.1-16

**Abbreviations**

PM = Particulate Matter  
 HAP = Hazardous Air Pollutant  
 POM = Polycyclic Organic Matter

**Appendix A.2: Emissions Calculations**  
**Asphalt Load-Out, Silo Filling, and Yard Emissions (continued)**  
**Limited Emissions**

**Organic Volatile-Based Compounds (Table 11.1-16)**

Pollutant	CASRN	Category	HAP Type	Source	Speciation Profile		Limited Potential to Emit (tons/yr)			
					Load-out and Onsite Yard (% by weight of TOC)	Silo Filling and Asphalt Storage Tank (% by weight of TOC)	Load-out	Silo Filling	Onsite Yard	Total
<b>VOC</b>		VOC	---	TOC	94%	100%	<b>2.74</b>	<b>8.53</b>	<b>0.72</b>	<b>11.99</b>
non-VOC/non-HAPS										
Methane	74-82-8	non-VOC/non-HAP	---	TOC	6.50%	0.26%	1.9E-01	2.2E-02	5.0E-02	0.261
Acetone	67-64-1	non-VOC/non-HAP	---	TOC	0.046%	0.055%	1.3E-03	4.7E-03	3.5E-04	0.006
Ethylene	74-85-1	non-VOC/non-HAP	---	TOC	0.71%	1.10%	2.1E-02	9.4E-02	5.5E-03	0.120
<b>Total non-VOC/non-HAPS</b>					<b>7.30%</b>	<b>1.40%</b>	<b>0.213</b>	<b>0.119</b>	<b>0.056</b>	<b>0.39</b>
Volatile organic HAPs										
Benzene	71-43-2	VOC/HAP	---	TOC	0.052%	0.032%	1.5E-03	2.7E-03	4.0E-04	4.6E-03
Bromomethane	74-83-9	VOC/HAP	---	TOC	0.0096%	0.0049%	2.8E-04	4.2E-04	7.4E-05	7.7E-04
2-Butanone	78-93-3	VOC/HAP	---	TOC	0.049%	0.039%	1.4E-03	3.3E-03	3.8E-04	5.1E-03
Carbon Disulfide	75-15-0	VOC/HAP	---	TOC	0.013%	0.016%	3.8E-04	1.4E-03	1.0E-04	1.8E-03
Chloroethane	75-00-3	VOC/HAP	---	TOC	0.00021%	0.004%	6.1E-06	3.4E-04	1.6E-06	3.5E-04
Chloromethane	74-87-3	VOC/HAP	---	TOC	0.015%	0.023%	4.4E-04	2.0E-03	1.2E-04	2.5E-03
Cumene	92-82-8	VOC/HAP	---	TOC	0.11%	0	3.2E-03	0	8.5E-04	4.0E-03
Ethylbenzene	100-41-4	VOC/HAP	---	TOC	0.28%	0.038%	8.2E-03	3.2E-03	2.2E-03	0.014
Formaldehyde	50-00-0	VOC/HAP	---	TOC	0.088%	0.69%	2.6E-03	5.9E-02	6.8E-04	0.062
n-Hexane	100-54-3	VOC/HAP	---	TOC	0.15%	0.10%	4.4E-03	8.5E-03	1.2E-03	0.014
Isooctane	540-84-1	VOC/HAP	---	TOC	0.0018%	0.00031%	5.2E-05	2.6E-05	1.4E-05	9.3E-05
Methylene Chloride	75-09-2	non-VOC/HAP	---	TOC	0	0.00027%	0	2.3E-05	0	2.3E-05
MTBE	1634-04-4	VOC/HAP	---	TOC	0	0	0	0	0	0
Styrene	100-42-5	VOC/HAP	---	TOC	0.0073%	0.0054%	2.1E-04	4.6E-04	5.6E-05	7.3E-04
Tetrachloroethene	127-18-4	non-VOC/HAP	---	TOC	0.0077%	0	2.2E-04	0	5.9E-05	2.8E-04
Toluene	100-88-3	VOC/HAP	---	TOC	0.21%	0.062%	6.1E-03	5.3E-03	1.6E-03	0.013
1,1,1-Trichloroethane	71-55-6	VOC/HAP	---	TOC	0	0	0	0	0	0
Trichloroethene	79-01-6	VOC/HAP	---	TOC	0	0	0	0	0	0
Trichlorofluoromethane	75-69-4	VOC/HAP	---	TOC	0.0013%	0	3.8E-05	0	1.0E-05	4.8E-05
m/p-Xylene	1330-20-7	VOC/HAP	---	TOC	0.41%	0.20%	1.2E-02	1.7E-02	3.2E-03	0.032
o-Xylene	95-47-6	VOC/HAP	---	TOC	0.08%	0.057%	2.3E-03	4.9E-03	6.2E-04	7.8E-03
<b>Total volatile organic HAPs</b>					<b>1.50%</b>	<b>1.30%</b>	<b>0.044</b>	<b>0.111</b>	<b>0.012</b>	<b>0.166</b>

**Methodology**

Limited Potential to Emit (tons/yr) = [Speciation Profile (%)] \* [TOC (tons/yr)]

Speciation Profiles from AP-42 Chapter 11.1 (dated 3/04), Tables 11.1-15 and 11.1-16

**Abbreviations**

TOC = Total Organic Compounds

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

MTBE = Methyl tert butyl ether

**Appendix A.2: Emissions Calculations  
Material Storage Piles  
Limited Emissions**

**Company Name: Wabash Valley Asphalt, LLC**  
**Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808**  
**Permit Number: 167-28587-00114**  
**Reviewer: Jack Harmon**

Note: Since the emissions from the storage piles are minimal, the limited emissions are equal to the unlimited emissions.

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$ <p>where <math>E_f</math> = emission factor (lb/acre/day)  <math>s</math> = silt content (wt %)  <math>p</math> = 125 days of rain greater than or equal to 0.01 inches  <math>f</math> = 15 % of wind greater than or equal to 12 mph</p>
---

Material	Silt Content (wt %)*	Emission Factor (lb/acre/day)	Maximum Anticipated Pile Size (acres)**	PTE of PM (tons/yr)	PTE of PM10/PM2.5 (tons/yr)
Sand	2.6	3.01	0.80	0.439	0.154
Limestone	1.6	1.85	1.30	0.439	0.154
RAP	0.5	0.58	1.40	0.148	0.052
Gravel	1.6	1.85	1.20	0.406	0.142
Slag	3.8	4.40	1.00	0.803	0.281
<b>Totals</b>				<b>2.23</b>	<b>0.78</b>

**Methodology**

PTE of PM (tons/yr) = (Emission Factor (lb/acre/day)) \* (Maximum Pile Size (acres)) \* (ton/2000 lbs) \* (8760 hours/yr)

PTE of PM10/PM2.5 (tons/yr) = (Potential PM Emissions (tons/yr)) \* 35%

\*Silt content values obtained from AP-42 Table 13.2.4-1 (dated 1/95)

\*\*Maximum anticipated pile size (acres) provided by the source.

**Abbreviations**

PM = Particulate Matter

PM10 = Particulate Matter (<10 um)

PM2.5 = Particulate Matter (<2.5 um)

PM2.5 = PM10

PTE = Potential to Emit

**Appendix A.2: Emissions Calculations**  
**Material Processing, Handling, Crushing, Screening, and Conveying**  
**Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

**Batch or Continuous Drop Operations (AP-42 Section 13.2.4)**

To estimate potential fugitive dust emissions from processing and handling of raw materials (batch or continuous drop operations), AP-42 emission factors for Aggregate Handling, Section 13.2.4 (fifth edition, 1/95) are utilized.

$$E_f = k \cdot (0.0032)^k \cdot (U/5)^{1.3} / (M/2)^{1.4}$$

where:  $E_f$  = Emission factor (lb/ton)

$k$  (PM) = 0.74 = particle size multiplier (0.74 assumed for aerodynamic diameter <=100 um)  
 $k$  (PM10) = 0.35 = particle size multiplier (0.35 assumed for aerodynamic diameter <=10 um)  
 $k$  (PM2.5) = 0.053 = particle size multiplier (0.053 assumed for aerodynamic diameter <=2.5 um)  
 $U$  = 10.2 = worst case annual mean wind speed (Source: NOAA, 2006\*)  
 $M$  = 4.0 = material % moisture content of aggregate (Source: AP-42 Section 11.1.1.1)

$E_f$  (PM) = 2.27E-03 lb PM/ton of material handled  
 $E_f$  (PM10) = 1.07E-03 lb PM10/ton of material handled  
 $E_f$  (PM2.5) = 1.62E-04 lb PM2.5/ton of material handled

Annual Asphalt Production Limitation = 1,400,000 tons/yr  
 Percent Asphalt Cement/Binder (weight %) = 5.0%  
 Maximum Material Handling Throughput = 1,330,000 tons/yr

Type of Activity	Limited PTE of PM (tons/yr)	Limited PTE of PM10 (tons/yr)	Limited PTE of PM2.5 (tons/yr)
Truck unloading of materials into storage piles	1.51	0.71	0.11
Front-end loader dumping of materials into feeder bins	1.51	0.71	0.11
Conveyor dropping material into dryer/mixer or batch tower	1.51	0.71	0.11
<b>Total (tons/yr)</b>	<b>4.52</b>	<b>2.14</b>	<b>0.32</b>

**Methodology**

The percent asphalt cement/binder provided by the source.  
 Maximum Material Handling Throughput (tons/yr) = [Annual Asphalt Production Limitation (tons/yr)] \* [1 - Percent Asphalt Cement/Binder (weight %)]  
 Limited Potential to Emit (tons/yr) = (Maximum Material Handling Throughput (tons/yr)) \* (Emission Factor (lb/ton)) \* (ton/2000 lbs)  
 Raw materials may include limestone, sand, recycled asphalt pavement (RAP), gravel, slag, and other additives  
 \*Worst case annual mean wind speed (Indianapolis, IN) from "Comparative Climatic Data", National Climatic Data Center, NOAA, 2006

**Material Screening and Conveying (AP-42 Section 19.2.2)**

To estimate potential fugitive dust emissions from raw material crushing, screening, and conveying, AP-42 emission factors for Crushed Stone Processing Operations, Section 19.2.2 (dated 8/04) are utilized.

Operation	Uncontrolled Emission Factor for PM (lbs/ton)*	Uncontrolled Emission Factor for PM10 (lbs/ton)*	Limited PTE of PM (tons/yr)	Limited PTE of PM10/PM2.5 (tons/yr)**
Crushing	0.0054	0.0024	3.59	1.60
Screening	0.025	0.0087	16.63	5.79
Conveying	0.003	0.0011	2.00	0.73
<b>Limited Potential to Emit (tons/yr) =</b>			<b>22.21</b>	<b>8.11</b>

**Methodology**

Maximum Material Handling Throughput (tons/yr) = [Annual Asphalt Production Limitation (tons/yr)] \* [1 - Percent Asphalt Cement/Binder (weight %)]  
 Limited Potential to Emit (tons/yr) = [Maximum Material Handling Throughput (tons/yr)] \* [Emission Factor (lb/ton)] \* [ton/2000 lbs]  
 Raw materials may include stone/gravel, slag, and recycled asphalt pavement (RAP)  
 Emission Factors from AP-42 Chapter 11.19.2 (dated 8/04), Table 11.19.2-2  
 \*Uncontrolled emissions factors for PM/PM10 represent tertiary crushing of stone with moisture content ranging from 0.21 to 1.3 percent by weight (Table 11.19.2-2). The bulk moisture content of aggregate in the storage piles at a hot mix asphalt production plant typically stabilizes between 3 to 5 percent by weight (Source: AP-42 Section 11.1.1.1).  
 \*\*Assumes PM10 = PM2.5

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PM2.5 = Particulate Matter (<2.5 um)  
 PTE = Potential to Emit

**Appendix A.2: Emissions Calculations  
Unpaved Roads  
Limited Emissions**

**Company Name: Wabash Valley Asphalt, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
Permit Number: 167-28587-00114  
Reviewer: Jack Harmon**

**Unpaved Roads at Industrial Site**

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

Annual Asphalt Production Limitation	1,400,000	tons/yr
Percent Asphalt Cement/Binder (weight %)	5.0%	
Maximum Material Handling Throughput	1,330,000	tons/yr
Maximum Asphalt Cement/Binder Throughput	70,000	tons/yr
No. 2 Fuel Oil Limitation	2,011,140	gallons/yr

Process	Vehicle Type	Maximum Weight of Vehicle (tons)	Maximum Weight of Load (tons)	Maximum Weight of Vehicle and Load (tons/trip)	Maximum trips per year (trip/yr)	Total Weight driven per year (ton/yr)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/yr)
Aggregate/RAP Truck Enter Full	Dump truck (16 CY)	17.0	22.4	39.4	5.9E+04	2.3E+06	300	0.057	3373.6
Aggregate/RAP Truck Leave Empty	Dump truck (16 CY)	17.0	0	17.0	5.9E+04	1.0E+06	300	0.057	3373.6
Asphalt Cement/Binder Truck Enter Full	Tanker truck (6000 gal)	12.0	36.0	48.0	1.9E+03	9.3E+04	300	0.057	110.5
Asphalt Cement/Binder Truck Leave Empty	Tanker truck (6000 gal)	12.0	0	12.0	1.9E+03	2.3E+04	300	0.057	110.5
Fuel Oil Truck Enter Full	Tanker truck (6000 gal)	12.0	32.0	44.0	2.1E+02	9.3E+03	300	0.057	12.1
Fuel Oil Truck Leave Empty	Tanker truck (6000 gal)	12.0	0	12.0	2.1E+02	2.5E+03	300	0.057	12.1
Aggregate/RAP Loader Full	Front-end loader (3 CY)	15.0	4.2	19.2	3.2E+05	6.1E+06	300	0.057	17992.4
Aggregate/RAP Loader Empty	Front-end loader (3 CY)	15.0	0	15.0	3.2E+05	4.8E+06	300	0.057	17992.4
Asphalt Concrete Truck Leave Full	Dump truck (16 CY)	17.0	24.0	41.0	5.8E+04	2.4E+06	300	0.057	3314.4
Asphalt Concrete Truck Enter Empty	Dump truck (16 CY)	17.0	0	17.0	5.8E+04	9.9E+05	300	0.057	3314.4
<b>Total</b>						<b>8.7E+05</b>	<b>1.8E+07</b>		<b>5.0E+04</b>

Average Vehicle Weight Per Trip	20.3	tons/trip
Average Miles Per Trip	0.057	miles/trip

Unmitigated Emission Factor,  $E_f = k \cdot [(s/12)^a] \cdot [(W/3)^b]$  (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	4.8	4.8	4.8	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-3 Sand/Gravel Processing Plant Road)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2)
W =	20.3	20.3	20.3	tons = average vehicle weight (provided by source)
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor,  $E_{ext} = E_f \cdot [(365 - P)/365]$

Mitigated Emission Factor, $E_{ext} = E_f \cdot [(365 - P)/365]$	
where P =	125
	days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f$	6.09	1.55	0.16	lb/mile
Mitigated Emission Factor, $E_{ext}$	4.01	1.02	0.10	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Vehicle Type	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Aggregate/RAP Truck Enter Full	Dump truck (16 CY)	10.28	2.62	0.26	6.76	1.72	0.17	3.38	0.86	0.09
Aggregate/RAP Truck Leave Empty	Dump truck (16 CY)	10.28	2.62	0.26	6.76	1.72	0.17	3.38	0.86	0.09
Asphalt Cement/Binder Truck Enter Full	Tanker truck (6000 gal)	0.337	0.086	0.01	0.221	0.056	5.6E-03	0.111	0.028	2.8E-03
Asphalt Cement/Binder Truck Leave Empty	Tanker truck (6000 gal)	0.337	0.086	0.01	0.221	0.056	5.6E-03	0.111	0.028	2.8E-03
Fuel Oil Truck Enter Full	Tanker truck (6000 gal)	0.037	0.009	9.4E-04	0.024	0.006	6.2E-04	0.012	0.003	3.1E-04
Fuel Oil Truck Leave Empty	Tanker truck (6000 gal)	0.037	0.009	9.4E-04	0.024	0.006	6.2E-04	0.012	0.003	3.1E-04
Aggregate/RAP Loader Full	Front-end loader (3 CY)	54.83	13.97	1.40	36.05	9.19	0.92	18.03	4.59	0.46
Aggregate/RAP Loader Empty	Front-end loader (3 CY)	54.83	13.97	1.40	36.05	9.19	0.92	18.03	4.59	0.46
Asphalt Concrete Truck Leave Full	Dump truck (16 CY)	10.10	2.57	0.26	6.64	1.69	0.17	3.32	0.85	0.08
Asphalt Concrete Truck Enter Empty	Dump truck (16 CY)	10.10	2.57	0.26	6.64	1.69	0.17	3.32	0.85	0.08
<b>Totals</b>		<b>151.16</b>	<b>38.53</b>	<b>3.85</b>	<b>99.40</b>	<b>25.33</b>	<b>2.53</b>	<b>49.70</b>	<b>12.67</b>	<b>1.27</b>

**Methodology**

Maximum Material Handling Throughput = [Annual Asphalt Production Limitation (tons/yr)] \* [1 - Percent Asphalt Cement/Binder (weight %)]  
 Maximum Asphalt Cement/Binder Throughput = [Annual Asphalt Production Limitation (tons/yr)] \* [Percent Asphalt Cement/Binder (weight %)]  
 Maximum Weight of Vehicle and Load (tons/trip) = [Maximum Weight of Vehicle (tons/trip)] + [Maximum Weight of Load (tons/trip)]  
 Maximum trips per year (trip/yr) = [Throughput (tons/yr)] / [Maximum Weight of Load (tons/trip)]  
 Total Weight driven per year (ton/yr) = [Maximum Weight of Vehicle and Load (tons/trip)] \* [Maximum trips per year (trip/yr)]  
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
 Maximum one-way miles (miles/yr) = [Maximum trips per year (trip/yr)] \* [Maximum one-way distance (mi/trip)]  
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per year (ton/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Unmitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Mitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) \* (1 - Dust Control Efficiency)

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PM2.5 = Particulate Matter (<2.5 um)  
 PM2.5 = PM10  
 PTE = Potential to Emit

**Appendix A.2: Emissions Calculations  
Paved Roads  
Limited Emissions**

**Company Name: Wabash Valley Asphalt, LLC**  
**Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808**  
**Permit Number: 167-28587-00114**  
**Reviewer: Jack Harmon**

**Paved Roads at Industrial Site**

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (12/2003).

Annual Asphalt Production Limitation = 1,400,000 tons/yr  
 Percent Asphalt Cement/Binder (weight %) = 5.0%  
 Maximum Material Handling Throughput = 1,330,000 tons/yr  
 Maximum Asphalt Cement/Binder Throughput = 70,000 tons/yr  
 No. 2 Fuel Oil Limitation = 2,011,140 gallons/yr

Process	Vehicle Type	Maximum Weight of Vehicle (tons)	Maximum Weight of Load (tons)	Maximum Weight of Vehicle and Load (tons/trip)	Maximum trips per year (trip/yr)	Total Weight driven per day (ton/yr)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/yr)
Aggregate/RAP Truck Enter Full	Dump truck (16 CY)	17.0	22.4	39.40	5.9E+04	2.3E+06	300	0.057	3373.6
Aggregate/RAP Truck Leave Empty	Dump truck (16 CY)	17.0	0	17.00	5.9E+04	1.0E+06	300	0.057	3373.6
Asphalt Cement/Binder Truck Enter Full	Tanker truck (6000 gal)	12.0	36.0	48.00	1.9E+03	9.3E+04	300	0.057	110.5
Asphalt Cement/Binder Truck Leave Empty	Tanker truck (6000 gal)	12.0	0	12.00	1.9E+03	2.3E+04	300	0.057	110.5
Fuel Oil Truck Enter Full	Tanker truck (6000 gal)	12.0	32.0	44.00	2.1E+02	9.3E+03	300	0.057	12.1
Fuel Oil Truck Leave Empty	Tanker truck (6000 gal)	12.0	0	12.00	2.1E+02	2.5E+03	300	0.057	12.1
Aggregate/RAP Loader Full	Front-end loader (3 CY)	15.0	4.2	19.20	3.2E+05	6.1E+06	300	0.057	17992.4
Aggregate/RAP Loader Empty	Front-end loader (3 CY)	15.0	0	15.00	3.2E+05	4.8E+06	300	0.057	17992.4
Asphalt Concrete Truck Leave Full	Dump truck (16 CY)	17.0	24.0	41.00	5.8E+04	2.4E+06	300	0.057	3314.4
Asphalt Concrete Truck Enter Empty	Dump truck (16 CY)	17.0	0	17.00	5.8E+04	9.9E+05	300	0.057	3314.4
<b>Total</b>					<b>8.7E+05</b>	<b>1.8E+07</b>			<b>5.0E+04</b>

Average Vehicle Weight Per Trip = 20.3 tons/trip  
 Average Miles Per Trip = 0.057 miles/trip

Unmitigated Emission Factor, Ef = [k \* (sL/2)^0.65 \* (W/3)^1.5 - C] (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.082	0.016	0.0024	lb/mi = particle size multiplier (AP-42 Table 13.2.1-1)
W =	20.3	20.3	20.3	tons = average vehicle weight (provided by source)
C =	0.00047	0.00047	0.00036	lb/mi = emission factor for vehicle exhaust, brake wear, and tire wear (AP-42 Table 13.2.1-2)
sL =	0.6	0.6	0.6	g/m <sup>2</sup> = Ubiquitous Baseline Silt Loading Values of paved roads (Table 13.2.1-3 for summer months)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, Eext = E \* [1 - (p/4N)]

Mitigated Emission Factor, Eext = Ef \* [1 - (p/4N)]  
 where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)  
 N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, Ef =	0.66	0.13	0.02	lb/mile
Mitigated Emission Factor, Eext =	0.60	0.12	0.02	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Vehicle Type	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10 (tons/yr)	Controlled PTE of PM2.5 (tons/yr)
Aggregate/RAP Truck Enter Full	Dump truck (16 CY)	1.11	0.22	0.03	1.01	0.20	0.03	0.51	0.10	0.01
Aggregate/RAP Truck Leave Empty	Dump truck (16 CY)	1.11	0.22	0.03	1.01	0.20	0.03	0.51	0.10	0.01
Asphalt Cement/Binder Truck Enter Full	Tanker truck (6000 gal)	0.036	0.007	1.0E-03	0.033	0.006	9.5E-04	0.017	3.2E-03	4.8E-04
Asphalt Cement/Binder Truck Leave Empty	Tanker truck (6000 gal)	0.036	0.007	1.0E-03	0.033	0.006	9.5E-04	0.017	3.2E-03	4.8E-04
Fuel Oil Truck Enter Full	Tanker truck (6000 gal)	4.0E-03	7.7E-04	1.1E-04	3.6E-03	7.1E-04	1.0E-04	1.8E-03	3.5E-04	5.2E-05
Fuel Oil Truck Leave Empty	Tanker truck (6000 gal)	4.0E-03	7.7E-04	1.1E-04	3.6E-03	7.1E-04	1.0E-04	1.8E-03	3.5E-04	5.2E-05
Aggregate/RAP Loader Full	Front-end loader (3 CY)	5.92	1.15	0.17	5.41	1.05	0.16	2.70	0.53	0.08
Aggregate/RAP Loader Empty	Front-end loader (3 CY)	5.92	1.15	0.17	5.41	1.05	0.16	2.70	0.53	0.08
Asphalt Concrete Truck Leave Full	Dump truck (16 CY)	1.09	0.21	0.03	1.00	0.19	0.03	0.50	0.10	0.01
Asphalt Concrete Truck Enter Empty	Dump truck (16 CY)	1.09	0.21	0.03	1.00	0.19	0.03	0.50	0.10	0.01
<b>Totals</b>		<b>16.31</b>	<b>3.17</b>	<b>0.47</b>	<b>14.92</b>	<b>2.90</b>	<b>0.43</b>	<b>7.46</b>	<b>1.45</b>	<b>0.21</b>

**Methodology**

Maximum Material Handling Throughput = [Annual Asphalt Production Limitation (tons/yr)] \* [1 - Percent Asphalt Cement/Binder (weight %)]  
 Maximum Asphalt Cement/Binder Throughput = [Annual Asphalt Production Limitation (tons/yr)] \* [Percent Asphalt Cement/Binder (weight %)]  
 Maximum Weight of Vehicle and Load (tons/trip) = [Maximum Weight of Vehicle (tons/trip)] + [Maximum Weight of Load (tons/trip)]  
 Maximum trips per year (trip/yr) = [Throughput (tons/yr)] / [Maximum Weight of Load (tons/trip)]  
 Total Weight driven per year (ton/yr) = [Maximum Weight of Vehicle and Load (tons/trip)] \* [Maximum trips per year (trip/yr)]  
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]  
 Maximum one-way miles (miles/yr) = [Maximum trips per year (trip/yr)] \* [Maximum one-way distance (mi/trip)]  
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per year (ton/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/yr)] / SUM[Maximum trips per year (trip/yr)]  
 Unmitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Unmitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Mitigated PTE (tons/yr) = (Maximum one-way miles (miles/yr)) \* (Mitigated Emission Factor (lb/mile)) \* (ton/2000 lbs)  
 Controlled PTE (tons/yr) = (Mitigated PTE (tons/yr)) \* (1 - Dust Control Efficiency)

**Abbreviations**

PM = Particulate Matter  
 PM10 = Particulate Matter (<10 um)  
 PM2.5 = Particulate Matter (<2.5 um)  
 PM2.5 = PM10  
 PTE = Potential to Emit

**Appendix A.2: Emissions Calculations**  
**Cold Mix Asphalt Production and Stockpiles**  
**Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

The following calculations determine the amount of VOC and HAP emissions created from volatilization of solvent used as diluent in the liquid binder for cold mix asphalt production

Cold Mix Asphalt VOC Usage Limitation = 60.0 tons/yr

**Volatile Organic Compounds**

	Maximum weight % of VOC solvent in binder	Weight % VOC solvent in binder that evaporates	VOC Solvent Usage Limitation (tons/yr)	Limited PTE of VOC (tons/yr)
Cut back asphalt rapid cure (assuming gasoline or naphtha solvent)				
Cut back asphalt medium cure (assuming kerosene solvent)				
Cut back asphalt slow cure (assuming fuel oil solvent)	23.5%	25.0%	240.0	60.0
Emulsified asphalt with solvent (assuming water, emulsifying agent, and 15% fuel oil solvent)				
Other asphalt with solvent binder				
<b>Worst Case Limited PTE of VOC =</b>				<b>60.0</b>

**Hazardous Air Pollutants**

Worst Case Total HAP Content of VOC solvent (weight %) =	26.08%
Worst Case Single HAP Content of VOC solvent (weight %) =	9.0% Xylenes
<b>Limited PTE of Total HAPs (tons/yr) =</b>	<b>15.65</b>
<b>Limited PTE of Single HAP (tons/yr) =</b>	<b>5.40 Xylenes</b>

**Hazardous Air Pollutant (HAP) Content (% by weight) For Various Petroleum Solvents\***

Volatile Organic HAP	CAS#	Hazardous Air Pollutant (HAP) Content (% by weight)* For Various Petroleum Solvents				
		Gasoline	Kerosene	Diesel (#2) Fuel Oil	No. 2 Fuel Oil	No. 6 Fuel Oil
1,3-Butadiene	106-99-0	3.70E-5%				
2,2,4-Trimethylpentane	540-84-1	2.40%				
Acenaphthene	83-32-9		4.70E-5%		1.80E-4%	
Acenaphthylene	208-96-8		4.50E-5%		6.00E-5%	
Anthracene	120-12-7		1.20E-6%	5.80E-5%	2.80E-5%	5.00E-5%
Benzene	71-43-2	1.90%		2.90E-4%		
Benzo(a)anthracene	56-55-3			9.60E-7%	4.50E-7%	5.50E-4%
Benzo(a)pyrene	50-32-8			2.20E-6%	2.10E-7%	4.40E-5%
Benzo(g,h,i)perylene	191-24-2			1.20E-7%	5.70E-8%	
Biphenyl	92-52-4			6.30E-4%	7.20E-5%	
Chrysene	218-01-9			4.50E-7%	1.40E-6%	6.90E-4%
Ethylbenzene	100-41-4	1.70%		0.07%	3.40E-4%	
Fluoranthene	206-44-0		7.10E-6%	5.90E-5%	1.40E-5%	2.40E-4%
Fluorene	86-73-7		4.20E-5%	8.60E-4%	1.90E-4%	
Indeno(1,2,3-cd)pyrene	193-39-5			1.60E-7%		1.00E-4%
Methyl-tert-butylether	1634-04-4	0.33%				
Naphthalene	91-20-3	0.25%	0.31%	0.26%	0.22%	4.20E-5%
n-Hexane	110-54-3	2.40%				
Phenanthrene	85-01-8		8.60E-6%	8.80E-4%	7.90E-4%	2.10E-4%
Pyrene	129-00-0		2.40E-6%	4.60E-5%	2.90E-5%	2.30E-5%
Toluene	108-88-3	8.10%		0.18%	6.20E-4%	
Total Xylenes	1330-20-7	9.00%		0.50%	0.23%	
<b>Total Organic HAPs</b>		<b>26.08%</b>	<b>0.33%</b>	<b>1.29%</b>	<b>0.68%</b>	<b>0.19%</b>
<b>Worst Single HAP</b>		<b>9.00%</b>	<b>0.31%</b>	<b>0.50%</b>	<b>0.23%</b>	<b>0.07%</b>
		<b>Xylenes</b>	<b>Naphthalene</b>	<b>Xylenes</b>	<b>Xylenes</b>	<b>Chrysene</b>

**Methodology**

Limited PTE of VOC (tons/yr) = [Weight % VOC solvent in binder that evaporates] \* [VOC Solvent Usage Limitation (tons/yr)]

Limited PTE of Total HAPs (tons/yr) = [Worst Case Total HAP Content of VOC solvent (weight %)] \* [Worst Case Limited PTE of VOC (tons/yr)]

Limited PTE of Single HAP (tons/yr) = [Worst Case Single HAP Content of VOC solvent (weight %)] \* [Worst Case Limited PTE of VOC (tons/yr)]

\*Source: Petroleum Liquids. Potter, T.L. and K.E. Simmons. 1998. Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2.

Composition of Petroleum Mixtures. The Association for Environmental Health and Science. Available on the Internet at:

<http://www.aehs.com/publications/catalog/contents/tph.htm>

**Abbreviations**

VOC = Volatile Organic Compounds

PTE = Potential to Emit

**Appendix A.2: Emissions Calculations  
Gasoline Fuel Transfer and Dispensing Operation  
Limited Emissions**

**Company Name:** Wabash Valley Asphalt, LLC  
**Source Address:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**Reviewer:** Jack Harmon

Note: Since the emissions from the gasoline fuel transfer and dispensing operation are minimal, the limited emissions are equal to the unlimited emissions.

To calculate evaporative emissions from the gasoline dispensing fuel transfer and dispensing operation handling emission factors from AP-42 Table 5.2-7 were used. The total potential emission of VOC is as follows:

$$\begin{aligned} \text{Gasoline Throughput} &= 0 \text{ gallons/day} \\ &= 0.0 \text{ kgal/yr} \end{aligned}$$

**Volatile Organic Compounds**

Emission Source	Emission Factor (lb/kgal of throughput)	PTE of VOC (tons/yr)*
Filling storage tank (balanced submerged filling)	0.3	0.00
Tank breathing and emptying	1.0	0.00
Vehicle refueling (displaced losses - controlled)	1.1	0.00
Spillage	0.7	0.00
<b>Total</b>		<b>0.00</b>

**Hazardous Air Pollutants**

Worst Case Total HAP Content of VOC solvent (weight %)* =	26.08%	
Worst Case Single HAP Content of VOC solvent (weight %)* =	9.0%	Xylenes
<b>Limited PTE of Total HAPs (tons/yr) =</b>	<b>0.00</b>	
<b>Limited PTE of Single HAP (tons/yr) =</b>	<b>0.00</b>	<b>Xylenes</b>

**Methodology**

The gasoline throughput was provided by the source.

Gasoline Throughput (kgal/yr) = [Gasoline Throughput (lbs/day)] \* [365 days/yr] \* [kgal/1000 gal]

PTE of VOC (tons/yr) = [Gasoline Throughput (kgal/yr)] \* [Emission Factor (lb/kgal)] \* [ton/2000 lb]

PTE of Total HAPs (tons/yr) = [Worst Case Total HAP Content of VOC solvent (weight %)] \* [PTE of VOC (tons/yr)]

PTE of Single HAP (tons/yr) = [Worst Case Single HAP Content of VOC solvent (weight %)] \* [PTE of VOC (tons/yr)]

\*Source: Petroleum Liquids. Potter, T.L. and K.E. Simmons. 1998. Total Petroleum Hydrocarbon Criteria Working Group Series, Volume 2.

Composition of Petroleum Mixtures. The Association for Environmental Health and Science. Available on the Internet at:

<http://www.aehs.com/publications/catalog/contents/tph.htm>

**Abbreviations**

VOC = Volatile Organic Compounds

PTE = Potential to Emit

**Appendix A.3: Emissions Calculations**  
**Fuel Equivalency Calculations**  
**Fuel Combustion Units with Maximum Capacity > 100 MMBtu/hr**

**Company Name:** Wabash Valley Asphalt, LLC  
**Address City IN Zip:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**Permit Number:** 167-28587-00114  
**PI ID:** 167-00114  
**Reviewer:** Jack Harmon

NOx Equivalency				
Fuel Type	AP-42 Emission Factor	Emission Factor Units	Fuel Equivalency	Fuel Equivalency Units
Natural Gas	190	lb/MMCF	1.0	MMCF natural gas per MMCF natural gas
No. 2 Fuel Oil	24.0	lb/kgal	0.1263	MMCF natural gas per 1000 gal No. 2 fuel oil
No. 4 Fuel Oil	47.0	lb/kgal	0.247	MMCF natural gas per 1000 gal No. 4 fuel oil

**Methodology**

Fuel Equivalency = [AP-42 Emission Factor for any fuel type (lb/kgal)] / [AP-42 Emission Factor for Natural Gas (lb/MMCF)]

Sources of AP-42 Emission Factors for fuel combustion:

Natural Gas (boiler > 100 MMBtu/hr): AP-42 Chapter 1.4 (dated 7/98), Tables 1.4-1 and 1.4-2

No. 2, No. 4, and residual fuel oil (industrial boiler > 100 MMBtu/hr): AP-42 Chapter 1.3 (dated 9/98), Table 1.3-1

SO2 Equivalency						
Fuel Type	* Limited Sulfur Content	Limited Sulfur Content Units	AP-42 Emission Factor	Emission Factor Units	Fuel Equivalency	Fuel Equivalency Units
Natural Gas	NA	NA	0.6	lb/MMCF	0.009	1000 gal No. 2 fuel oil per MMCF natural gas
No. 2 Fuel Oil	0.48	% by weight	68.44	lb/kgal	1.00	gal No. 2 fuel oil per gal No. 2 fuel oil
No. 4 Fuel Oil	0.54	% by weight	81.00	lb/kgal	1.18	gal No. 2 fuel oil per gal No. 4 fuel oil

SO2 Equivalency						
Fuel Type	* Limited Sulfur Content	Limited Sulfur Content Units	AP-42 Emission Factor	Emission Factor Units	Fuel Equivalency	Fuel Equivalency Units
Natural Gas	NA	NA	0.6	lb/MMCF	0.007	1000 gal No. 4 fuel oil per MMCF natural gas
No. 2 Fuel Oil	0.48	% by weight	68.44	lb/kgal	0.84	gal No. 4 fuel oil per gal No. 2 fuel oil
No. 4 Fuel Oil	0.54	% by weight	81.00	lb/kgal	1.00	gal No. 4 fuel oil per gal No. 4 fuel oil

**Methodology**

Natural Gas SO2 Fuel Equivalency = [AP-42 Emission Factor for Natural Gas (lb/MMCF)] / [AP-42 Emission Factor for any fuel type (lb/kgal)]

No. 2 and No. 4 SO2 Fuel Equivalency = [AP-42 Emission Factor for No. 2 and No. 4 fuel oil (lb/kgal)] / [AP-42 Emission Factor for any fuel type (lb/kgal)]

Sources of AP-42 Emission Factors for fuel combustion:

Natural Gas (boiler > 100 MMBtu/hr): AP-42 Chapter 1.4 (dated 7/98), Tables 1.4-1 and 1.4-2

No. 2, No. 4, and residual fuel oil (industrial boiler > 100 MMBtu/hr): AP-42 Chapter 1.3 (dated 9/98), Table 1.3-1



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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**Governor**

*Thomas W. Easterly*  
**Commissioner**

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## **SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED**

**TO:** Dan Conley  
Wabash Valley Asphalt Company  
POB 9778  
Terre Haute, IN 47808

**DATE:** March 16, 2010

**FROM:** Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

**SUBJECT:** Final Decision  
FESOP  
167-28587-00114

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
James L Burdick  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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[www.idem.IN.gov](http://www.idem.IN.gov)

March 16, 2010

TO: Vigo County Public Library

From: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

Subject: **Important Information for Display Regarding a Final Determination**

**Applicant Name: Wabash Valley Asphalt Company**  
**Permit Number: 167-28587-00114**

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures  
Final Library.dot 11/30/07

# Mail Code 61-53

IDEM Staff	CDENNY 3/16/2010 Wabash Valley Asphalt Company, LLC 167-28587-00114 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING	
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	

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2		James L Burdick President Wabash Valley Asphalt Company, LLC PO Box 9778 Terre Haute IN 47808 (RO CAATS)									
3		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)									
4		Vigo County Board of Commissioners County Annex, 121 Oak Street Terre Haute IN 47807 (Local Official)									
5		Terre Haute City Council and Mayors Office 17 Harding Ave Terre Haute IN 47807 (Local Official)									
6		Vigo County Health Department 147 Oak Street Terre Haute IN 47807 (Health Department)									
7		Vigo Co Public Library 1 Library Square Terre Haute IN 47807-3609 (Library)									
8		Mr. James Burdick Wabash Valley Asphalt P.O. Box 8297 Terre Haute IN 47808 (Affected Party)									
9		J.P. Roehm PO Box 303 Clinton IN 47842 (Affected Party)									
10		George Needham Vigo County Air Pollution Control 103 South Third St. Terre Haute IN 47807 (Local Official)									
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