



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
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TO: Interested Parties / Applicant  
DATE: July 19, 2007  
RE: Wabash Valley Asphalt / 133-22639-00043  
FROM: Nisha Sizemore  
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, Room 1049, 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.dot 03/23/06



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100 North Senate Avenue  
MC 61-53 IGCN 1003  
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# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**Wabash Valley Asphalt Company, LLC  
2000 East County Road 800 South  
Cloverdale, Indiana 46120**

(herein known as the Permittee) is hereby authorized to construct and 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. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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.**

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.

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.

Operation Permit No.: F133-22639-00043	
Original signed by:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: July 19, 2007  Expiration Date: July 19, 2012

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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)]

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The Permittee owns and operates a stationary batch mix asphalt production plant.

Source Address:	2000 East County Road 800 South, Cloverdale, IN 46120
Mailing Address:	400 N. 10 <sup>th</sup> Street, Terre Haute, Indiana 47807
General Source Phone Number:	(812) 252-6094
SIC Code:	2951
County Location:	Putnam
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD 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:

One batch mix asphalt plant including:

- (a) One (1) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 250 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer burner (constructed in 1990) with a maximum rated capacity of 100 million British thermal units (MMBtu) per hour using No. 2 distillate fuel oil as back-up fuel, and one (1) cyclone followed by one (1) baghouse of 40,857acfm in series for air pollution control, exhausting at one (1) stack, identified as S-1;
- (b) One (1) drag slat hot mix conveyor and two (2) feed conveyors;
- (c) One (1) screen;
- (d) Cold-mix (stockpile mix) asphalt storage piles;
- (e) Three (3) liquid asphalt storage tanks identified as Tanks 17, 18R (constructed in 1999), and 19 with a maximum storage capacity of 25,000, 25,000 and 10,000 gallons and exhausting at stacks V-3, V-4R, and V-5, respectively;
- (f) One (1) cold feed system consisting of five (5) compartments with a total aggregate holding capacity of 120 tons;
- (g) One (1) hot aggregate bucket elevator;
- (h) One (1) hot aggregate storage bin consisting of four (4) compartments, with a maximum storage capacity of 60 tons;
- (i) One (1) aggregate weigh hopper and one (1) asphalt cement weigh hopper;
- (j) One (1) pug mill mixer with a maximum hot mix holding capacity of 6,000 pounds;

- (k) Two (2) hot mix storage bins, each with a maximum storage capacity of 200 tons;
- (l) One (1) Reclaimed Asphalt Pavement (RAP) feed system;
- (m) One (1) RAP storage pile with a maximum storage capacity of 10,100 tons;
- (n) Aggregate storage piles, with a total maximum storage capacity of 16,800 tons; and
- (o) Combustion source flame safety purging on startup.

Under the Hot Mix Asphalt facilities NSPS (40 CFR 60, Subpart I), the asphalt plant is subject to the requirements of 40 CFR 60, Subpart I.

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

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) asphalt recycling breaker constructed in 1997 with a maximum capacity of 45 tons per hour of RAP;

Under the Nonmetallic Mineral Processing Plants NSPS (40 CFR 60, Subpart OOO), the asphalt recycling breaker is subject to the requirements of 40 CFR 60, Subpart OOO.

- (b) One (1) No. 2 distillate fuel oil fired hot oil heater constructed in 1986, identified as emission unit No. 24, rated at 1.5 MMBtu per hour, exhausting at one (1) stack, identified as S-2;
- (c) One (1) re-refined waste oil storage tank, identified as Tank 20, with a maximum storage capacity of 15,000 gallons, exhausting at one (1) stack identified as V-6;
- (d) Two (2) No. 2 distillate fuel oil storage tanks, identified as Tanks 22 and 23, each with a maximum storage capacity of 8,800 and 1,500 gallons, respectively, and each exhausting at one (1) stack, identified as V-8 and V-9, respectively;
- (e) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (f) Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) storage containers with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons;
- (g) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
- (h) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (i) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or; having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months;
- (j) Closed loop heating and cooling systems;
- (k) Paved and unpaved roads and parking lots with public access; and
- (l) A laboratory as defined in 326 IAC 2-7-1(21)(D).

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

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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]**

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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)]**

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- (a) This permit, 133-22639-00043, is issued for a fixed term of five (5) 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, including any permit shield provided in 326 IAC 2-7-15, 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]**

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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)]**

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- (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 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.9 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.10 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (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 December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance 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, IDEM, OAQ, may require to determine the compliance status of the source.

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).

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

- (a) The Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) for the source as described in 326 IAC 1-6-2. At a minimum the PMPs shall include:
  - (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]**

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- (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, 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 Section), or  
Telephone Number: 317-233-0178 (ask for Compliance Section)  
Facsimile Number: 317-233-6865

- (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 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]**

- (a) All terms and conditions of permits established prior to 133-22639-03264 and issued pursuant to permitting programs approved into the state implementation plan have been either:

- (1) incorporated as originally stated,
  - (2) revised
  - (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)]

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)]

- (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 Data Section, 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]

- (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  
Permits Branch, 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]**

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- (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  
Permits Branch, 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 preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (4) 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);
- (5) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, 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

- (6) 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]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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]

- (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  
Permits Branch, 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]

- (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) Except as provided in 326 IAC 2-7-19(e), 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 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

#### C.2 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. This limitation shall also satisfy the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).
- (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 (Prevention of Significant Deterioration (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 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.3 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.4 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.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on May 24, 1996. The plan is included as Attachment A.

C.8 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (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  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 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 Accredited 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 Accredited 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.10 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 Data Section, 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.11 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.12 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. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.14 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.15 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 prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

within ninety (90) days from the date of issuance of this permit.

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

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) 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.16 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.17 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;
  - (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.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]**

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- (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.19 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.

**C.20 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 Data Section, 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.21 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**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-8-4(10)]:**

One batch mix asphalt plant including:

- (a) One (1) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 250 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer burner (constructed in 1990) with a maximum rated capacity of 100 million British thermal units (MMBtu) per hour using No. 2 distillate fuel oil as back-up fuel, and one (1) cyclone followed by one (1) baghouse of 40,857acfm in series for air pollution control, exhausting at one (1) stack, identified as S-1;
- (b) One (1) drag slat hot mix conveyor and two (2) feed conveyors;
- (c) One (1) screen;
- (d) Cold-mix (stockpile mix) asphalt storage piles;
- (e) Three (3) liquid asphalt storage tanks identified as Tanks 17, 18R (constructed in 1999), and 19 with a maximum storage capacity of 25,000, 25,000 and 10,000 gallons and exhausting at stacks V-3, V-4R, and V-5, respectively;
- (f) One (1) cold feed system consisting of five (5) compartments with a total aggregate holding capacity of 120 tons;
- (g) One (1) hot aggregate bucket elevator;
- (h) One (1) hot aggregate storage bin consisting of four (4) compartments, with a maximum storage capacity of 60 tons;
- (i) One (1) aggregate weigh hopper and one (1) asphalt cement weigh hopper;
- (j) One (1) pug mill mixer with a maximum hot mix holding capacity of 6,000 pounds;
- (k) Hot mix storage bins, each with a maximum storage capacity of 400 tons;
- (l) One (1) Reclaimed Asphalt Pavement (RAP) feed system;
- (m) One (1) RAP storage pile with a maximum storage capacity of 10,100 tons;
- (n) Aggregate storage piles, with a total maximum storage capacity of 16,800 tons; and
- (o) Combustion source flame safety purging on startup.

Under the Hot Mix Asphalt Facilities NSPS (40 CFR 60, Subpart I), the asphalt plant is subject to the requirements of 40 CFR 60, Subpart I.

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

**Emissions Limitations and Standards [326 IAC 2-8-4 (1)]**

**D.1.1 Aggregate Dryer/Mixer Emission Limitations [326 IAC 2-8-4] [326 IAC 2-2]**

Pursuant to 326 IAC 2-8-4 and 326 IAC 2-2, the emissions from the aggregate dryer/mixer shall be limited as follows:

- (a) The asphalt production rate shall be limited to less than 493,827 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

- (b) PM/PM10 emissions from the aggregate dryer/mixer shall be limited to less than 0.35 pounds of PM/PM10 per ton of asphalt produced.
- (c) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.40 pounds of CO per ton of asphalt produced.
- (d) NOx emissions from the aggregate dryer/mixer shall be limited to less than 0.12 pounds of NOx per ton of asphalt produced.
- (e) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.036 pounds of VOC per ton of asphalt produced.

Compliance with these limits combined with the PM, PM10, CO, NOx, and VOC emissions from all other emissions units at this source will limit source-wide emissions of these pollutants to less than 100 tons per year and will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to FESOP 133-14102-03264 issued on April 3, 2002 and 326 IAC 2-8-4, the Permittee shall comply with the following:

- (a) The sulfur content of the No. 2 fuel oil used shall not exceed 0.5% by weight.
- (b) The sulfur content of the re-refined waste oil used shall not exceed 0.75% by weight.
- (c) The SO<sub>2</sub> emissions from the aggregate dryer/burner shall be limited to less than 110 pounds per thousand gallons (lb/kgal) of re-refined waste oil and less than 71.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
- (d) The re-refined waste oil combusted shall be limited to less than 1,735,510 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. For the purpose of determining compliance with this limit, every thousand gallons of No. 2 fuel oil shall be considered equivalent to 644 gallons of re-refined waste oil.

Compliance with this limit combined with the SO<sub>2</sub> emissions from all other emissions units at this source, will limit source-wide SO<sub>2</sub> emissions to less than 100 tons per year and render the requirements of 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 89.7 tons of VOC emissions are emitted per twelve (12) consecutive months with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in (c) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed 89.7 tons per twelve (12) consecutive month period.
- (b) Liquid binders used in the production of cold mix asphalt shall be defined as follows:
  - (1) Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
  - (2) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
  - (3) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.

- (4) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
  - (5) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating
- (c) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 94.4 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 128 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 359 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 193 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (5) Other asphalt with solvent liquid binder shall not exceed 3,587 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 94.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This will limit the VOC emissions from the cold mix asphalt production to

less than 89.7 tons per twelve (12) consecutive month period. Compliance with this limit makes 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

**D.1.4 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-1.1-2]**

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Pursuant to 7-1.1-2, sulfur dioxide emissions from the asphalt plant shall be limited as follows:

- (a) One and six-tenths (1.6) pounds per MMBtu for residual oil combustion, and
- (b) Five-tenths (0.5) pound per MMBtu for distillate oil combustion.

**D.1.5 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]**

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Pursuant to 2-8-4(1), the following limits shall apply to the aggregate dryer:

- (a) The chlorine content of the waste oil used in the 100 MMBtu per hour burner for the aggregate dryer shall not exceed seventeen hundredths of a percent (0.17%) by weight.
- (b) The usage of waste oil in the 100 MMBtu per hour burner for the aggregate dryer shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The HCl emissions from the 100 MMBtu per hour burner for the aggregate dryer shall be limited to less than 11.4 pounds of HCl per 1,000 gallons of waste oil burned, based on a chlorine content limit of 0.17% by weight.

These limits are required in order to limit the source-wide emissions of HCl to less than 10 tons per year. Compliance with these limits will also limit source-wide emissions of combined HAPs to less than 25 tons per year. Therefore, compliance with these limits renders 326 IAC 2-7 (Part 70) not applicable.

**D.1.6 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 its control device.

**Compliance Determination Requirements**

**D.1.7 Sulfur Dioxide Emissions and Sulfur Content**

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Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed one and six-tenths (1.6) pounds per MMBtu for residual oil combustion and five-tenths (0.5) pounds per million Btu heat input for distillate oil combustion by:
  - (1) Providing vendor analysis 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.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) 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 100 MMBtu per hour burner, 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 (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

**D.1.8 Hydrogen Chloride (HCl) Emissions and Chlorine Content**

The Permittee shall demonstrate that the chlorine content of the fuel used for the aggregate dryers does not exceed seventeen hundredths of a percent (0.17%) by weight, when the operating on waste oil, by providing a vendor analysis of fuel delivered accompanied by a vendor certification.

**D.1.9 Testing Requirements [326 IAC 2-8-4(3)]**

The Permittee shall perform PM and PM10 stack testing utilizing methods as approved by the Commissioner to document compliance with Condition D.1.1(b). These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

**D.1.10 Particulate Matter (PM) and PM10**

In order to comply with Condition D.1.1, the cyclone and baghouse for PM and PM10 control shall be in operation and control emissions from the asphalt plant at all times that the asphalt plant is in operation.

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

**D.1.11 Visible Emissions Notations**

- (a) Visible emission notations of the aggregate dryer/burner baghouse stack exhaust, and the conveyors, transfer points, aggregate storage piles, and unpaved roads 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.
- (d) The Section C - Response to Excursions and Exceedances for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

**D.1.12 Broken or Failed Bag Detection**

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Section C - Response to Excursions and Exceedances shall be initiated. For any failure with corresponding response steps and timetable not described in the Section C - Response to Excursions and Exceedances, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).

#### D.1.13 Parametric Monitoring

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The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer/burner, at least once per day when the aggregate dryer/burner is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 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 and 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 and Exceedances, shall be considered a deviation from this permit.

The instrument used for determining the pressure 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 Cyclone Failure Detection

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In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have 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). Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

### **Record Keeping and Reporting Requirements [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 monthly records of asphalt production.
- (b) To document compliance with Condition D.1.2(d), the Permittee shall maintain records of monthly fuel usage for re-refined waste oil and No. 2 fuel oil combusted in the aggregate dryer/burner.
- (c) To document compliance with Condition D.1.3, the Permittee shall document VOC usage as follows:
  - (1) Amount and type of liquid binder used in the production of cold mix asphalt each month;
  - (2) Type and VOC solvent content by weight of the liquid binder used in the production of cold mix asphalt each month;
  - (3) Amount of VOC solvent used in the production of cold mix asphalt each month.

Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test

results of ASTM tests for asphalt cutback and asphalt emulsion may be used to document volatilization.

- (d) To document compliance with Conditions D.1.2 and D.1.4, the Permittee shall maintain records in accordance with (1) through (6) below.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual re-refined waste oil and re-refined waste oil equivalent usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (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, the certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); 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 fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. 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.

- (e) To document compliance with D.1.5 and D.1.8, the Permittee shall maintain records of monthly fuel usage for re-refined waste oil combusted in the aggregate dryer/burner and shall obtain a statement from the fuel supplier that certifies the chlorine content of the re-refined waste oil.
- (f) To document compliance with Condition D.1.11, the Permittee shall maintain records of visible emission notations of the aggregate dryer/mixer stack 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, (i.e. the process did not operate that day).
- (g) To document compliance with Condition D.1.13, the Permittee shall maintain once per day records of the pressure drop across the baghouse. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for that lack of a pressure drop reading, (i.e. the process did not operate that day).
- (h) 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 the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

### **New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

#### **D.1.17 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]**

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- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the asphalt plant except as otherwise specified in 40 CFR Part 60, Subpart I.
- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

#### **D.1.18 New Source Performance Standard for Hot Mix Asphalt Facilities Requirements [40 CFR Part 60, Subpart I] [326 IAC 12]**

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Pursuant to 40 CFR Part 60.90, the Permittee shall comply with the following provisions of 40 CFR 60, Subpart I (New Source Performance Standards for Hot Mix Asphalt Facilities), which are incorporated by reference as 326 IAC 12 for the asphalt plant:

### **Subpart I—Standards of Performance for Hot Mix Asphalt Facilities**

#### **§ 60.90 Applicability and designation of affected facility.**

(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.

(b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.

[42 FR 37936, July 25, 1977, as amended at 51 FR 12325, Apr. 10, 1986]

#### **§ 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.

[51 FR 12325, Apr. 10, 1986]

#### **§ 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.

[39 FR 9314, Mar. 8, 1974, as amended at 40 FR 46259, Oct. 6, 1975]

**§ 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.

[54 FR 6667, Feb. 14, 1989]

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### Insignificant Activities

- (a) One (1) asphalt recycling breaker constructed in 1997 with a maximum capacity of 45 tons per hour of RAP.

Under the Nonmetallic Mineral Processing Plants NSPS (40 CFR 60, Subpart OOO), the asphalt recycling breaker is subject to the requirements of 40 CFR 60, Subpart OOO.

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

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

#### D.2.1 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

#### D.2.2 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the asphalt recycling breaker except as otherwise specified in 40 CFR Part 60, Subpart OOO.

- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

#### D.2.3 New Source Performance Standard for Nonmetallic Mineral Processing Plants Requirements [40 CFR Part 60, Subpart OOO] [326 IAC 12]

Pursuant to 40 CFR Part 60.670, the Permittee shall comply with the provisions of 40 CFR 60, Subpart OOO (New Source Performance Standards Nonmetallic Mineral Processing Plants), which are incorporated by reference as 326 IAC 12 for the asphalt recycling breaker as follows.

### Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants

**Source:** 51 FR 31337, Aug. 1, 1985, unless otherwise noted.

#### § 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

Table 1\_Applicability of Subpart A to Subpart 000

Subpart A reference	Applies to Subpart 000	Comment
60.1, Applicability.....	Yes.....	
60.2, Definitions.....	Yes.....	
60.3, Units and abbreviations.....	Yes.....	
60.4, Address:		
(a).....	Yes.....	
(b).....	Yes.....	
60.5, Determination of construction or modification.	Yes.....	
60.6, Review of plans.....	Yes.....	
60.7, Notification and recordkeeping..	Yes.....	Except in (a)(2) report of anticipated date of initial startup is not required
		(§ 60.676(h)).
60.8, Performance tests.....	Yes.....	Except in (d), after 30 days notice for an initially scheduled performance test, any rescheduled performance test requires 7 days notice, not 30 days (§ 60.675(g)).
60.9, Availability of information.....	Yes.....	
60.10, State authority.....	Yes.....	
60.11, Compliance with standards and maintenance requirements.	Yes.....	Except in (b) under certain conditions (§§ 60.675 (c)(3) and (c)(4)), Method 9 observation may be reduced from 3 hours to 1 hour. Some affected facilities exempted from Method 9 tests (§ 60.675(h)).
60.12, Circumvention.....	Yes.....	
60.13, Monitoring requirements.....	Yes.....	
60.14, Modification.....	Yes.....	
60.15, Reconstruction.....	Yes.....	
60.16, Priority list.....	Yes.....	
60.17, Incorporations by reference....	Yes.....	
60.18, General control device.....	No.....	Flares will not be used to comply with the emission limits.
60.19, General notification and reporting requirements.	Yes.....	

-

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

**§ 60.671 Definitions.**

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

*Bagging operation* means the mechanical process by which bags are filled with nonmetallic minerals.

*Belt conveyor* means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

*Bucket elevator* means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

*Building* means any frame structure with a roof.

*Capacity* means the cumulative rated capacity of all initial crushers that are part of the plant.

*Capture system* means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more process operations to a control device.

*Control device* means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more process operations at a nonmetallic mineral processing plant.

*Conveying system* means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

*Crusher* means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

*Enclosed truck or railcar loading station* means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

*Fixed plant* means any nonmetallic mineral processing plant at which the processing equipment specified in §60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

*Fugitive emission* means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

*Grinding mill* means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

*Initial crusher* means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

*Nonmetallic mineral* means any of the following minerals or any mixture of which the majority is any of the following minerals:

(a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(b) Sand and Gravel.

(c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(d) Rock Salt.

(e) Gypsum.

(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(g) Pumice.

(h) Gilsonite.

(i) Talc and Pyrophyllite.

(j) Boron, including Borax, Kernite, and Colemanite.

- (k) Barite.
- (l) Fluorospar.
- (m) Feldspar.
- (n) Diatomite.
- (o) Perlite.
- (p) Vermiculite.
- (q) Mica.
- (r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

*Nonmetallic mineral processing plant* means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, Portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670 (b) and (c).

*Portable plant* means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

*Production line* means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

*Screening operation* means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).

*Size* means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

*Stack emission* means the particulate matter that is released to the atmosphere from a capture system.

*Storage bin* means a facility for storage (including surge bins) or nonmetallic minerals prior to further processing or loading.

*Transfer point* means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

*Truck dumping* means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: trucks, front end loaders, skip hoists, and railcars.

*Vent* means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

*Wet mining operation* means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

*Wet screening operation* means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

**§ 60.672 Standard for particulate matter.**

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

**§ 60.675 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). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(c)(1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

[54 FR 6680, Feb. 14, 1989, as amended at 62 FR 31360, June 9, 1997]

### **§ 60.676 Reporting and recordkeeping.**

(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).

(h) The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

[51 FR 31337, Aug. 1, 1985, as amended at 54 FR 6680, Feb. 14, 1989; 62 FR 31360, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

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

Source Name: Wabash Valley Asphalt Company, LLC  
Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
FESOP Permit No.: F133-22639-00043

**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 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 Company, LLC  
Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
FESOP Permit No.: F133-22639-00043

**This form consists of 2 pages**

**Page 1 of 2**

- |   |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and</li><li>• 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</li></ul> |
|---|

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 DATA SECTION**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
 Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
 FESOP Permit No.: F133-22639-00043  
 Facility: 100.0 MMBtu per hour aggregate dryer burner  
 Parameter: Re-refined waste oil and equivalent usage limit to limit SO<sub>2</sub> emissions  
 Limit: The usage of re-refined waste oil with a sulfur content of 0.75% and re-refined waste oil equivalents in the 100.0 MMBtu per hour burner for the aggregate dryer shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month. For purposes of determining compliance, every 1,000 gallons of No. 2 distillate fuel oil burned shall be equivalent to 644 gallons of re-refined waste oil based on SO<sub>2</sub> emissions.

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

Month	Column 1		Column 2		Column 1 + Column 2	
	Re-refined waste oil and equivalent usage this month (gallons)		Re-refined waste oil and equivalent usage previous 11 months (gallons)		12 month total re-refined waste oil and equivalent usage (gallons)	
	Waste oil	Equiv.	Waste Oil	Equiv.	Waste Oil	Equiv.
Month 1						
Month 2						
Month 3						

- 9 No deviation occurred in this quarter.
- 9 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 DATA SECTION**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
 Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
 FESOP Permit No.: F133-22639-00043  
 Facility: 100.0 MMBtu per hour aggregate dryer burner  
 Parameter: Re-refined waste oil usage limit to limit HCl emissions  
 Limit: The usage of re-refined waste oil with a chlorine content of 0.17% in the 100.0 MMBtu per hour burner for the aggregate dryer shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

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

Month	Column1	Column 2	Column 1 + Column 2
	Re-refined waste oil usage this month (gallons)	Re-refined waste oil usage previous 11 months (gallons)	12 month total re-refined waste oil usage (gallons)
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 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 DATA SECTION**

**Single Liquid Binder Solvent Quarterly Report**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
 Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
 FESOP Permit No.: F133-22639-00043  
**Facility:** Asphalt Plant  
**Parameter:** VOC Usage  
**Limit:** Cutback asphalt rapid cure liquid binder usage shall not exceed 94.4 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt medium cure liquid binder usage shall not exceed 128 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt slow cure liquid binder usage shall not exceed 359 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Emulsified asphalt with solvent liquid binder usage shall not exceed 193 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Other asphalt with solvent liquid binder shall not exceed 3,587 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

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

**The following liquid binder solvent was the only liquid binder solvent used over the previous 12 month period:** \_\_\_\_\_ **Limit applicable:** \_\_\_\_\_  
 (use of more than one binder requires the use of the "Multiple Liquid Binder Solvents" report form)

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

- 9 No deviation occurred in this reporting period.
- 9 Deviation/s occurred in this reporting period.

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 DATA SECTION  
 Multiple Liquid Binder Solvent Quarterly Report**

**Source Name:** Wabash Valley Asphalt Company, LLC  
**Source Address:** 2000 East CR 800 South, Cloverdale, Indiana 46120  
**Mailing Address:** 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
**FESOP No.:** F133-22639-00043  
**Facility:** Asphalt Plant  
**Parameter:** VOC Emissions  
**Limit:** 89.7 tons per year  
**Year:**

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11months =VOC emitted 12 Month Total (tons)
Month 1	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 2	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 3	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				

9 No deviation occurred in this reporting period.  
 9 Deviation/s occurred in this reporting period.  
 Deviation has been reported on:

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 2000 East County Road 800 South, Cloverdale, Indiana 46120  
 Mailing Address: 400 N. 10<sup>th</sup> Street, Terre Haute, Indiana 47807  
 FESOP Permit No.: F133-22639-00043

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>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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 (specify permit condition #)</b>	
<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

### ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

- (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;
- (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 stock piles of aggregate;
- (2) treating around the stockpile area with emulsified asphalt;
- (3) treating around the stockpile area with water;
- (4) treating the stockpiles with water.

- (c) Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following method on an as needed basis:

- (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;
- (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) tarping the aggregate hauling vehicles;
- (2) maintain vehicle bodies in a condition to prevent leakage;
- (3) spray the aggregates with water;
- (4) 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;
- (3) spray the aggregate with water on an as needed basis.

# Indiana Department of Environmental Management Office of Air Quality

## Technical Support Document (TSD) for the Renewal of a Federally Enforceable State Operating Permit

### Source Background and Description

Source Name:	Wabash Valley Asphalt Company, LLC
Source Location:	2000 East County Road 800 South, Cloverdale, Indiana 46120
County:	Putnam
SIC Code:	2951
Operation Permit No.:	F133-14102-03264
Operation Permit Issuance Date:	April 3, 2002
Permit Renewal No.:	F133-22639-00043
Permit Reviewer:	ERG/SE

The Office of Air Quality (OAQ) has reviewed a FESOP Operating Permit Renewal application from Wabash Valley Asphalt Company, LLC relating to the operation of a stationary batch mix asphalt production plant.

### History

This source was previously permitted under county and source ID number 133-03264. This source has not relocated, and information contained in the FESOP Renewal application submitted to IDEM on February 2, 2006 states that this plant is a stationary asphalt plant. Therefore, this asphalt plant does not meet the definition of a portable source, pursuant to 326 IAC 2-1.1-1(15). IDEM uses different numbering conventions for assigning facility ID numbers to stationary and portable sources. To reflect that this plant is stationary and not portable, IDEM is changing the source ID to 133-00043.

### Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

One batch mix asphalt plant, constructed prior to 1980, including:

- (a) One (1) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 250 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer burner (constructed in 1990) with a maximum rated capacity of 100 million British thermal units (MMBtu) per hour using No. 2 distillate fuel oil as back-up fuel, and one (1) cyclone followed by one (1) baghouse of 40,857acfm in series for air pollution control, exhausting at one (1) stack, identified as S-1;
- (b) One (1) drag slat hot mix conveyor and two (2) feed conveyors;
- (c) One (1) screen;
- (d) Cold-mix (stockpile mix) asphalt storage piles;
- (e) Three (3) liquid asphalt storage tanks identified as Tanks 17, 18R (constructed in 1999), and 19 with a maximum storage capacity of 25,000, 25,000 and 10,000 gallons and exhausting at stacks V-3, V-4R, and V-5, respectively;
- (f) One (1) cold feed system consisting of five (5) compartments with a total aggregate holding capacity of 120 tons;

- (g) One (1) hot aggregate bucket elevator;
- (h) One (1) hot aggregate storage bin consisting of four (4) compartments, with a maximum storage capacity of 60 tons;
- (i) One (1) aggregate weigh hopper and one (1) asphalt cement weigh hopper;
- (j) One (1) pug mill mixer with a maximum hot mix holding capacity of 6,000 pounds;
- (k) Two (2) hot mix storage bins, each with a maximum storage capacity of 200 tons;
- (l) One (1) Reclaimed Asphalt Pavement (RAP) feed system;
- (m) One (1) RAP storage pile with a maximum storage capacity of 10,100 tons;
- (n) Aggregate storage piles, with a total maximum storage capacity of 16,800 tons; and
- (o) Combustion source flame safety purging on startup.

Under the Hot Mix Asphalt facilities NSPS (40 CFR 60, Subpart I), the asphalt plant is subject to the requirements of 40 CFR 60, Subpart I.

#### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

#### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) asphalt recycling breaker constructed in 1997 with a maximum capacity of 45 tons per hour of RAP;  
  
Under the Nonmetallic Mineral Processing Plants NSPS (40 CFR 60, Subpart OOO), the asphalt recycling breaker is subject to the requirements of 40 CFR 60, Subpart OOO.
- (b) One (1) No. 2 distillate fuel oil fired hot oil heater constructed in 1986, identified as emission unit No. 24, rated at 1.5 MMBtu per hour, exhausting at one (1) stack, identified as S-2;
- (c) One (1) re-refined waste oil storage tank, identified as Tank 20, with a maximum storage capacity of 15,000 gallons, exhausting at one (1) stack identified as V-6;
- (d) Two (2) No. 2 distillate fuel oil storage tanks, identified as Tanks 22 and 23, each with a maximum storage capacity of 8,800 and 1,500 gallons, respectively, and each exhausting at one (1) stack, identified as V-8 and V-9, respectively;
- (e) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month;
- (f) Volatile Organic Compound (VOC) and Hazardous Air Pollutant (HAP) storage containers with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons;
- (g) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;

- (h) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (i) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or; having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20°C (68°); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months;
- (j) Closed loop heating and cooling systems;
- (k) Paved and unpaved roads and parking lots with public access; and
- (l) A laboratory as defined in 326 IAC 2-7-1(21)(D).

### Existing Approvals

The source has been operating under FESOP 133-14102-03264, issued on April 3, 2002, with an expiration date of April 3, 2007 and the following approvals:

Administrative Amendment 133-20362-03264, issued on December 2, 2004.

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) FESOP 133-14102-03264 issued on April 3, 2002

Condition D.1.3 Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]: This condition stated that emissions of particulate matter less than 10 microns in diameter from the aggregate mixing and drying operation shall not exceed 0.077 pound of PM-10 per ton of asphalt mix.

Reason Revised: The AP-42 emission factors for asphalt plants were revised and updated emission factors were used to recalculate the potential emissions from the aggregate dryer/mixer. Based on the revised calculations, this limit has been revised.

- (b) FESOP 133-14102-03264 issued on April 3, 2002

Condition D.1.17 Used Oil Requirements: This condition stated that the waste oil burned in the aggregate dryer/mixer burner must comply with the used oil requirements in 329 IAC 13.

Reason not incorporated: These requirements are not federally enforceable pursuant to this FESOP.

- (c) FESOP 133-14102-03264 issued on April 3, 2002

Condition D.2.1 Volatile Organic Compound (VOC) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]: This condition stated that gelled asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall not exceed 3,586 tons of VOC solvent per twelve (12) consecutive month period. This limit was based on the definition: other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating.

Reason revised: This condition was revised to set limits for various types of liquid binders in order to allow the Permittee more freedom with respect to the use of liquid binders in cold mix asphalt production.

- (d) FESOP 133-14102-03264 issued on April 3, 2002

Condition D.3.1 Record Keeping Requirements [326 IAC 12][40 CFR 60.110b, Subpart Kb]: This condition stated that the asphalt storage tank 18R was subject to the reporting requirements of 40 CFR 60, Subpart Kb.

Reason not incorporated: The 25,000 gallon liquid asphalt storage tank (Tank 18R) is now exempt from the recordkeeping requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" because this NSPS was amended and no longer applies to this storage tank.

### Enforcement Issue

There are no enforcement actions pending.

### Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP renewal application for the purposes of this review was received on February 2, 2006.

### Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 12).

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	35,129
PM-10	4,951
SO <sub>2</sub>	406
VOC	>100
CO	438
NO <sub>x</sub>	132

HAPs	Unrestricted Potential Emissions (tons/yr)
Hydrochloric Acid	41.6
Xylene	2.96
Ethylbenzene	2.41
Formaldehyde	0.81
Quinone	0.30
Benzene	0.31
Other Trace HAPs	1.66
Total	50.1

### Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP.

Process/emission unit	Potential To Emit (tons/year)						HAPs
	PM	PM10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	
Aggregate Dryer/Burner <sup>(1)</sup>	86.3 <sup>(2)</sup>	86.3 <sup>(2)</sup>	95.7	8.89	98.8	29.6	Total HAP's 18.3, Single HAP's <10
Storage	0.08	0.03	----	----	----	----	----
Conveying	2.24	1.06	----	----	----	----	----
Unpaved Roads <sup>(3)</sup>	43.1	11.0	----	----	----	----	----
Recycling	0.47	0.47	----	----	----	----	----
Hot Oil Heater	0.09	0.15	3.33	0.02	0.23	0.94	negligible
Cold Mix VOC <sup>(4)</sup>	----	----	----	89.7	----	----	----
<b>Total Emissions</b>	<b>132.0</b>	<b>99.0</b>	<b>99.0</b>	<b>98.6</b>	<b>99.0</b>	<b>30.6</b>	<b>Total HAP's &lt;250, Single HAP's &lt;10</b>

- (1) Limited PTE for SO<sub>2</sub>, VOC, CO, NO<sub>x</sub> and HCl reflects capacity and fuel usage limitations for 326 IAC 2-8 (FESOP).
- (2) Maximum allowable PM/PM10 emissions in order to comply with 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (PSD) Limits.
- (3) Potential to Emit after controls
- (4) Limited VOC emissions in order to comply with 326 IAC 2-8 (FESOP) Limit.

### County Attainment Status

The source is located in Putnam County.

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

**Note:** On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

- (a) Putnam County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides 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 NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Putnam County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (c) Putnam 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. See the State Rule Applicability – Entire Source section.
- (d) Fugitive Emissions  
 This type of operation is not one of the 28 listed source categories under 326 IAC 2-2. However, there are applicable New Source Performance Standards (40 CFR 60, Subpart I) that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD applicability.

## Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	132
PM-10	99.0
SO <sub>2</sub>	99.0
VOC	98.6
CO	99.0
NO <sub>x</sub>	30.6
Single HAP	<10
Combination HAPs	<25

This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.

## Federal Rule Applicability

- (a) The asphalt plant is subject to the New Source Performance Standard for Hot Mix Asphalt Facilities (326 IAC 12, 40 CFR 60.90 - 60.93, Subpart I), because it is a hot mix asphalt facility that was modified after June 11, 1973, the applicability date for this rule. Pursuant to 40 CFR 60.90(a), affected facilities include the following: the dryer; the system for screening, handling, storing, and weighing hot aggregate; the system for loading, transferring, and storing mineral filler, the system for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

The affected facilities are subject to the following portions of Subpart I. Non applicable portions of the NSPS will not be included in the permit.

- (1) 40 CFR 60.90(a), (b)
- (2) 40 CFR 60.91
- (3) 40 CFR 60.92(a)
- (4) 40 CFR 60.93(a), (b)

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart I.

- (b) The asphalt recycling breaker, an insignificant activity, is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60, Subpart OOO, “Standards of Performance for Nonmetallic Mineral Processing Plants” because it is an affected facility (a crusher) located at a source that meets the definition of a non-metallic mineral processing plant as defined under 40 CFR 60.671 that was constructed after August 31, 1983. Although the requirements of 40 CFR 60.90, Subpart I apply to the aggregate mixing and drying operation at this source, the requirements of Subpart I do not apply to the asphalt breaker and the asphalt breaker does not follow the aggregate mixing and drying operation in the plant process. Therefore, this unit is subject to the requirements of 40 CFR 60, Subpart OOO.

The asphalt recycling breaker is subject to the following portions of Subpart OOO. Non applicable portions of the NSPS will not be included in the permit.

- (1) 40 CFR 60.670(a), (e), (f), and Table 1
- (2) 40 CFR 60.671
- (3) 40 CFR 60.672(b), (c), (d)

- (4) 40 CFR 60.675(a)
- (5) 40 CFR 60.675(c)(1)(i), (ii), (iii)
- (6) 40 CFR 60.675(c)(3), (4)
- (7) 40 CFR 60.675(e), (g)
- (8) 40 CFR 60.676(a), (f), (h), (i), (j)

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart 000.

- (c) The 25,000 gallon liquid asphalt storage tank (Tank 18R) is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) “Standards of Performance for Volatile Organic Liquid Storage Vessels” because the tank has a storage capacity greater than 75 cubic meters but less than 151 cubic meters, and the liquid stored in the tank has a maximum true vapor pressure of less than 15.0 kPa. Storage tanks 17, 19, 20, 21, 22, and 23 are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) “Standards of Performance for Volatile Organic Liquid Storage Vessels” because all of the tanks were installed before July 23, 1984. Therefore, the requirements of 40 CFR 60, Subpart Kb are not included in this permit.
- (d) The 25,000 and 10,000 gallon liquid asphalt storage tanks (Tanks 17, 18R, and 19), the 15,000 gallon re-refined waste oil storage tank (Tank 20), the 5,600 gallon asphalt emulsion storage tank (Tank 21), and the two (2) No. 2 distillate fuel oil storage tanks (Tanks 22 and 23), each with a maximum storage capacity of 8,800 and 1,500 gallons, are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110a, Subpart Ka) “Standards of Performance for Storage Vessels for Petroleum Liquids” because each tank has a storage capacity less than 40,000 gallons. Therefore, the requirements of 40 CFR 60, Subpart Ka are not included in this permit.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asphalt Processing and Asphalt Roofing Manufacturing (40 CFR 63, Subpart LLLLL) are not included in this permit, because this source is not an asphalt processing facility or an asphalt roofing manufacturing facility, as defined in 40 CFR 63.8698.

### **State Rule Applicability – Entire Source**

#### **326 IAC 2-2 (Prevention of Significant Deterioration (PSD))**

This stationary source is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2. The aggregate dryer and all other emission units at this source, except the aggregate dryer burner installed in 1990, the hot oil heater installed in 1986, the asphalt recycling breaker that replaced an asphalt crusher in 1997, and tank 18R installed in 1999, were constructed prior to the rule applicability date of August 7, 1977; therefore at that time the source was not subject to this rule. However, since the potential to emit of PM, PM10, CO, and SO<sub>2</sub> from the aggregate dryer and all other emission units at this source constructed prior to 1977 were greater than 250 tons per year, the source was an existing major PSD source when the hot oil heater and the aggregate dryer burner were installed in 1986 and 1990, respectively.

Potential emissions from the hot oil heater are less than the PSD significant modification thresholds; therefore, this rule does not apply to the hot oil heater. When the aggregate dryer burner was installed in 1990, it was a replacement for a smaller burner. The burner was replaced without obtaining prior approval from the OAQ. Since the source was owned by Dalton Asphalt Corporation in 1990 and was not purchased by Milestone Contractors, L.P. until 1996, Milestone does not have records of the heat input capacity of the smaller burner that was replaced. Therefore, it cannot be determined whether or not the PSD significant modification thresholds were exceeded. However, the source was issued a FESOP (F133-5931-03264) on December 10, 1996 that included federally enforceable limits that limited the potential to emit of all criteria pollutants, including PM, to less than 250 tons per year making this a PSD minor source.

Potential emissions from the asphalt recycling breaker and tank 18R are less than the PSD significant modification thresholds; therefore, this rule does not apply to the recycling asphalt breaker or tank 18R. Potential VOC emissions from tank 18R, installed in 1999, are less than 250 tons per year; therefore, the requirements of this rule do not apply to the tank.

As shown in the "Potential to Emit After Issuance" table in this document, the allowable emissions of all regulated pollutants will remain less than 250 tons per year after application of all federally enforceable emission limits. The source shall limit PM emissions from the aggregate dryer/burner to 0.35 pounds PM per ton of asphalt mix produced based on a maximum throughput of 493,827 tons of asphalt mix per twelve consecutive month period. Compliance with this limit will ensure that PM emissions from the entire source will not exceed the 250 tons per year PSD threshold. The limits to comply with 326 IAC 2-8 (FESOP) listed below will limit emissions of PM<sub>10</sub>, NO<sub>x</sub>, CO, SO<sub>2</sub>, and VOC to less than 100 tons per year for the source. Since the potential emissions of all regulated pollutants are limited to less than 250 tons per year, this source is a minor source under PSD.

#### 326 IAC 2-6 (Emission Reporting)

This source is located in Putnam County, emits less than 5 tons per year of lead, and is not required to operate under the Part 70 Permit Program. Therefore, pursuant to 326 IAC 2-6-1(b), the source is only subject to additional information requests as provided in 326 IAC 2-6-5.

#### 326 IAC 5-1 (Opacity Limitations)

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%) 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.

#### 326 IAC 2-8-4 (FESOP)

- (a) Pursuant to F133-14102-03264 issued on April 3, 2002 and 326 IAC 2-8-4, the usage of re-refined waste oil for the aggregate dryer/burner shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. The sulfur content of the re-refined waste oil shall be limited to 0.75% by weight. The SO<sub>2</sub> emissions from the aggregate dryer/burner shall be limited to less than 110 pounds per thousand gallons (lb/kgal) of re-refined waste oil and less than 71.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil. These limitations are equivalent to SO<sub>2</sub> emissions of 95.67 tons per year or less for the aggregate dryer/burner. The SO<sub>2</sub> emissions for the entire source will therefore be limited to less than 100 tons per year. For the purpose of determining compliance with this limit, one gallon of re-refined waste oil shall be considered equivalent to 1.55 gallons of No. 2 fuel oil (644 gallons of re-refined waste oil per 1000 gallons of No. 2 fuel oil). Compliance with this limit combined with the SO<sub>2</sub> emissions from all other emissions units at this source will limit source-wide SO<sub>2</sub> emissions to less than 100 tons per year and will render 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permit Program) not applicable.
- (b) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 89.7 tons of VOC emissions are emitted per twelve (12) consecutive months with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in (2) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (2)(F) must be applied so that the total VOC emitted does not exceed 89.7 tons per twelve (12) consecutive month period.

- (1) Liquid binders used in the production of cold mix asphalt shall be defined as follows:
- (A) Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
  - (B) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
  - (C) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.
  - (D) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
  - (E) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating
- (2) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (A) Cutback asphalt rapid cure liquid binder usage shall not exceed 94.4 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (B) Cutback asphalt medium cure liquid binder usage shall not exceed 128 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (C) Cutback asphalt slow cure liquid binder usage shall not exceed 359 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (D) Emulsified asphalt with solvent liquid binder usage shall not exceed 193 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (E) Other asphalt with solvent liquid binder shall not exceed 3,587 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (F) The VOC solvent allotments in (A) through (E) above shall be adjusted when more than one type of binder is used per twelve (12) consecutive month period. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 94.4 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This will limit the VOC emissions from the cold mix asphalt production to less than 89.7 tons per twelve (12) consecutive month period and source-wide emissions to less than 100 tons per year. Compliance with this limit will render 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Permit Program) not applicable.

- (c) Pursuant to 326 IAC 2-8-4, the emissions of PM<sub>10</sub>, CO, NO<sub>x</sub> and VOC from the aggregate dryer/mixer shall be limited as follows:
- (1) The asphalt production rate shall be limited to less than 493,827 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
  - (2) PM<sub>10</sub> emissions from the aggregate dryer/mixer shall be limited to less than 0.35 pounds of PM<sub>10</sub> per ton of asphalt produced.
  - (3) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.40 pounds of CO per ton of asphalt produced.
  - (4) NO<sub>x</sub> emissions from the aggregate dryer/mixer shall be limited to less than 0.12 pounds of NO<sub>x</sub> per ton of asphalt produced.
  - (5) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.036 pounds of VOC per ton of asphalt produced.

These limits are equivalent to PM<sub>10</sub> emissions of less than 86.3 tons per year, CO emissions of less than 98.8 tons per year, NO<sub>x</sub> emissions of less than 29.6 tons per year, and VOC emissions of less than 8.89 tons per year from the aggregate dryer/mixer. Compliance with these limits combined with the PM<sub>10</sub>, CO, and VOC emissions from all other emissions units at this source will limit source-wide emissions of these pollutants to less than 100 tons per year and 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

- (d) Pursuant to 2-8-4(1), the following limits shall apply to the aggregate dryer:
- (1) The chlorine content of the waste oil used in the 100 MMBtu per hour burner for the aggregate dryer shall not exceed seventeen hundredths of a percent (0.17%) by weight.
  - (2) The usage of waste oil in the 100 MMBtu per hour burner for the aggregate dryer shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month

period, with compliance determined at the end of each month.

- (3) The HCl emissions from the 100 MMBtu per hour burner for the aggregate dryer shall be limited to less than 11.4 pounds of HCl per 1,000 gallons of waste oil burned, based on a chlorine content limit of 0.17% by weight.

These limits are required in order to limit the source-wide emissions of HCl to less than 10 tons per year. Compliance with these limits will also limit source-wide emissions of combined HAPs to less than 25 tons per year. Therefore, compliance with these limits renders 326 IAC 2-7 (Part 70) not applicable.

#### 326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source.

#### 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

This source is subject to 326 IAC 6-5 for fugitive particulate matter emissions. Pursuant to 326 IAC 6-5, sources which have not received all the necessary preconstruction approvals before December 13, 1985, must implement a fugitive dust control plan. This source submitted a fugitive dust control plan as part of their previous FESOP application. This plan has been incorporated into the proposed FESOP Renewal (See Attachment A of the permit).

#### 326 IAC 2-4.1-1 (New Source Toxics Control)

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of any combination of HAPs, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). This source has potential single and total HAP emissions of less than 10 and 25 tons per year, respectively, and was constructed prior to the rule applicability date of July 27, 1997; therefore it is not subject to the requirements of this rule.

### **State Rule Applicability – Asphalt Plant and Asphalt Recycling Breaker**

#### 326 IAC 8-1-6

The asphalt plant has potential VOC emissions of greater than twenty-five (25) tons per year. However, this source was constructed prior to the January 1, 1980 applicability date for this rule. Therefore, this source is not subject to the requirements of 326 IAC 8-1-6.

The Asphalt Recycling Breaker facility was installed after January 1, 1980, but its potential VOC emissions are less than twenty-five (25) tons per year. Therefore, the Asphalt Recycling Breaker facility is not subject to 326 IAC 8-1-6.

#### 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Particulate emissions from this asphalt plant are subject to a more stringent particulate limit in 40 CFR 60, Subpart I. Therefore, the asphalt plant is exempt from the requirements of 326 IAC 6-3, pursuant to 326 IAC 6-3-1(c)(5).

The Asphalt Recycling Breaker facility is subject to a more stringent particulate limit in 40 CFR 60, Subpart OOO. Therefore, the Asphalt Recycling Breaker facility is not subject to the requirements of 326 IAC 6-3, pursuant to 326 IAC 6-3-1(c)(5).

#### 326 IAC 7-1.1-2 (Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations)

The asphalt plant is subject to the requirements of 326 IAC 7-1.1-2, because it has potential sulfur dioxide emissions greater than twenty-five (25) tons per year. Pursuant to 7-1.1-2, sulfur dioxide emissions from the asphalt plant shall be limited as follows:

- (a) One and six-tenths (1.6) pounds per MMBtu for residual oil combustion, and

- (b) Five-tenths (0.5) pound per MMBtu for distillate oil combustion.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)

This rule applies to any paving application constructed after January 1, 1980 located anywhere in the state. Since this source is located in Putnam County and was constructed in 1965, prior to the rule applicability date, it is not subject to this rule.

**State Rule Applicability – Hot Oil Heater**

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The 1.5 MMBtu/hr hot oil heater is not subject to the requirements of this rule because potential SO<sub>2</sub> emissions from this unit are less than 25 tons per year.

**Testing Requirements**

Stack testing is not required for SO<sub>2</sub>, CO, NO<sub>x</sub>, VOC, and HAPs because this permit includes record keeping requirements that will ensure compliance with the asphalt production, fuel usage, and VOC and HAP emission limits. Compliance with the SO<sub>2</sub>, CO, NO<sub>x</sub>, VOC, and HAP limits does not require the use of an add on control device.

Testing is required by this permit for PM and PM10 from the asphalt plant because the baghouse for the asphalt plant must operate properly to ensure compliance with 326 IAC 2-2, 326 IAC 2-8, and 40 CFR 60, Subpart I emission limits. The PM10 test should include filterable and condensable PM10.

**Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period. The compliance monitoring requirements applicable to this source are as follows:

1. The asphalt plant, which is currently controlled by a baghouse, has applicable compliance monitoring conditions as specified below:
  - (a) Visible emission notations of the baghouse stack exhaust shall be performed once per day during normal daylight operation. A trained employee shall record whether emissions are normal or abnormal. 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. 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. 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. The Section C - Response to Excursions and Exceedances for this unit

shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

- (b) The Permittee shall record the pressure drop across the baghouse equipped with the asphalt plant at least once per day when the asphalt plant is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 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 and 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 and Exceedances, shall be considered a deviation from this permit.
- (c) In the event that bag failure has been observed:
- (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Section C - Response to Excursions and Exceedances shall be initiated. For any failure with corresponding response steps and timetable not described in the Section C - Response to Excursions and Exceedances, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 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.
- (2) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have 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).
- (d) In the event that cyclone failure has been observed:
- Failed units and the associated process will be shut down immediately until the failed units have 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). Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

These monitoring conditions are necessary because this baghouse must operate properly to ensure compliance with NSPS, Subpart I, 326 IAC 2-2 (PSD), and 326 IAC 2-8 (FESOP).

## **Conclusion**

The operation of this stationary batch mix asphalt production plant shall be subject to the conditions of the FESOP Renewal 133-22639-00043.

**Appendix A: Emission Calculations  
Aggregate Dryer/Mixer Criteria Pollutant Emissions**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

Max Capacity (tons/hr)	Max Capacity (tons/yr)	Limited Capacity (tons/yr)
250	2,190,000	493,827

	PM	PM10	NO <sub>x</sub>	VOC	CO
*Emission Factor (lb/ton)	32	4.5	0.12	0.036	0.4
Potential to Emit (tons/yr)	35,040	4,928	131	39.4	438
Limited Potential to Emit (tons/yr) based on limited capacity	7,901	1,111	29.6	8.89	98.8
**Limited Emission Factor (lb/ton)	0.35	0.35	--	--	--
Final Potential to Emit (tons/yr) based on limited capacity and particulate limits	86.3	86.3	29.6	8.89	98.8

\*Emission factors are from AP-42 Chapter 11.1, Tables 11.1-1, 11.1-5, and 11.1-6 [3/04].

\*\*Limited emission factors are for PM and PM10 and are limits pursuant to 326 IAC 2-8 (FESOP)

See page 2 for HAP emission calculations and pages 3 and 4 for SO<sub>2</sub> emission calculations for the Aggregate Dryer/Mixer.

**Methodology**

Potential to Emit (tons/yr) = Maximum Capacity (tons/hr) x Emission Factor (lbs/ton) x 8760 hrs/yr x 1 ton/2000 lbs

Limited Potential to Emit (tons/yr) = Limited Capacity (tons/yr) x Emission Factor (lbs/ton) x 8760 hrs/yr x 1 ton/2000 lbs

Final Limited Potential to Emit PM/PM10 (tons/yr) = Limited Capacity (tons/yr) x Limited Emission Factor (lbs/ton) x 8760 hrs/yr x 1 ton/2000 lbs

Final Limited Potential to Emit other Criteria Pollutants (tons/yr) = Limited Capacity (tons/yr) x Emission Factor (lbs/ton) x 8760 hrs/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Aggregate Dryer/Mixer HAP Emissions**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

Max. Capacity  
(tons/hr)

250
-----

	Pollutant					
Emission Factor in lbs/ton	Xylene 2.70E-03	Ethylbenzene 2.20E-03	Formaldehyde 7.40E-04	Benzene 2.80E-04	Quinone 2.70E-04	Total HAPs 0.0077
<b>Potential to Emit (tons/yr)</b>	<b>2.96</b>	<b>2.41</b>	<b>0.81</b>	<b>0.31</b>	<b>0.30</b>	<b>8.43</b>

Emission factors are from AP-42 Chapter 11.1, Table 11.1-9 for waste oil fired dryer with fabric filter (AP-42, 3/04).

**Methodology**

Potential to Emit (tons/yr) = Max. Capacity (tons/hr) x Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations  
Aggregate Dryer/Mixer  
Waste Oil Combustion**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/yr	Limited Throughput kgals/yr	S = Weight % Sulfur	C = Weight % Chlorine
100	7,300	1,736	0.75	0.17
Emission Factor in lb/kgal		SO2 110 (147 S)	HCl 11.4 (66 C)	
<b>Potential to Emit in tons/yr</b>		<b>402</b>	<b>41.6</b>	
<b>Limited Potential to Emit in tons/yr</b>		<b>95.7</b>	<b>9.90</b>	

The emissions of PM, PM10, Nox, CO, VOC, and HAPs from the aggregate dryer/mixer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on pages 1 and 2.

The emissions of SO2 are estimated using the small boiler emission factors from AP-42 Chapter 1.11, Table 1.11-2 [10/96], as shown above.  
1 gallon of waste oil has a heating value of 120,000 Btu

**Methodology**

Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu  
 Potential to Emit (tons/yr) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton  
 Limited Potential to Emit (tons/yr) = Limited Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations  
Aggregate Dryer/Mixer  
#2 Fuel Oil Combustion**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/yr	Limited Throughput kgals/yr	S = Weight % Sulfur
100	6,257	2,695	0.5

Emission Factor in lb/kgal	SO <sub>2</sub> 71.0 (142.0 S)
<b>Potential to Emit in tons/yr</b>	<b>222</b>
<b>Limited Potential to Emit in tons/yr</b>	<b>95.7</b>

The emissions of PM, PM10, NOx, CO, VOC, and HAPs from the aggregate dryer/mixer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on pages 1 and 2.

The emissions of SO<sub>2</sub> are estimated using the boiler emission factors from AP-42 Chapter 1.3, Tables 1.3-1 and 1.3-3 [9/98], as shown above.

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

**Methodology**

Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Limited Potential to Emit (tons/yr) = Limited Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations  
Fuel Usage Limit Calculations**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

Maximum Heat Input =	100 MMBtu/hr
Potential Emissions From Waste Oil in Tons/Year	
SO <sub>2</sub>	402

SO<sub>2</sub>

99 tpy - 3.3 tpy = 95.67 tpy limited SO<sub>2</sub>

Potential Waste Oil Usage = (100 MMBtu/hr)\*(8760 hr/yr)\*(1 gal/0.12 MMBtu)\*(1 kgal/1000 gal) = 7300 kgal/yr

**Fuel Usage Limit for Waste Oil = (95.67 tpy/402.41 tpy)\*(7300 kgal/yr) = 1735.51 kgal/year**

Maximum Heat Input =	100 MMBtu/hr
Potential Emissions From Fuel Oil #2 in Tons/Year	
SO <sub>2</sub>	222

SO<sub>2</sub>

99 tpy - 3.3 tpy = 95.67 tpy limited SO<sub>2</sub>

Potential #2 usage = (100 MMBtu/hr)\*(8760 hr/yr)\*(1 gal/.14 MMBtu)\*(1 kgal/1000 gal) = 6257.14 kgal/yr

**Fuel Usage Limit for #2 = (95.7 tpy/222 tpy)\*(6257 kgal/yr) = 2695 kgal/year**

Fuel equivalence for re-refined waste oil is determined as follows:

71.0 lb/1000 gal = 644 gallons per 1000 gallons No. 2 distillate oil (i.e., every 1000 gallons of No. 2 oil  
110.3 lb/1000 gal burned is equivalent to 644 gallons of waste oil burned, based on SO<sub>2</sub> emissions)

**Appendix A: Emission Calculations  
#2 Fuel Oil Heater**

**Company Name: Wabash Valley Asphalt Company, LLC**  
**Address: 2000 East County Road 800 South, Cloverdale, IN 46120**  
**FESOP #: 133-22639-00043**  
**Reviewer: ERG/SE**  
**Date: May 16, 2007**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year		S = Weight % Sulfur				
1.50	93.9		0.5				
	Pollutant						
Emission Factor in lb/kgal	PM* 2.0	PM10* 3.3	SO2 71 (142.0 S)	NO <sub>x</sub> 20.0	VOC 0.34	CO 5.0	Total HAPs 4.1E-02
<b>Potential to Emit in tons/yr</b>	<b>0.09</b>	<b>0.15</b>	<b>3.33</b>	<b>0.94</b>	<b>0.02</b>	<b>0.23</b>	<b>0.002</b>

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Emission factors are from AP-42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, and 1.3-9 ( SCC 1-03-005-01/02/03) [9/98]

\*PM emission factor is for filterable PM only. PM10 emission factor is for filterable and condensable PM combined.

**Methodology**

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations  
Potential to Emit Calculations for Unpaved Roads**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

**1. Emission Factors: AP-42**

According to AP-42, Chapter 13.2.2 - Unpaved Roads (12/03), the PM/PM10 emission factors for unpaved roads can be estimated from the following equation:

$$E = k \times (s/12)^a \times (w/3)^b \times ((365 - p)/365)$$

where:

E = emission factor (lb/vehicle mile traveled)	4.8 % (AP-42, Table 13.2.2-1)
s = surface material silt content (%) =	(see 2. below)
w = mean vehicle weight (tons)	4.9 for PM and 1.5 for PM10
k = empirical constant =	0.7 for PM and 0.9 for PM10
a = empirical constant =	0.45 for PM and PM10
b = empirical constant =	125
p = number of days per year with 0.01 inches precipitation	

**2. Potential to Emit (PTE) of PM/PM10 Before Control from Unpaved Roads:**

Vehicle Type	Mean Vehicle Weight (tons)	Vehicle Miles Traveled (VMT)* (miles/yr)	PM Emission Factor (lbs/mile)	PM10 Emission Factor (lbs/mile)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)
Tri-Axle Dump Trucks	24	10,776	4.32	1.10	23.3	5.94
Semi Tank Trucks	28	282	4.64	1.18	0.65	0.17
Tandem Axle Dump Trucks	24	1,024	4.32	1.10	2.21	0.56
Single Axle Dump Trucks	26	2,876	4.48	1.14	6.45	1.64
Front End Loader	26	23,901	4.48	1.14	53.6	13.7
<b>Total</b>		<b>38,859</b>	<b>22.3</b>	<b>5.67</b>	<b>86.2</b>	<b>22.0</b>

\*Vehicle miles traveled are the total miles traveled for each vehicle type

**Methodology**

PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (lbs/mile) x 1 ton/ 2000 lbs

**3. Potential to Emit (PTE) of PM/PM10 after Control from Unpaved Roads:**

The control efficiency from the procedures in the Fugitive Dust Control Plan for unpaved roads is assumed to be 50%.

PTE of PM after Control =	86 tons/yr x (1-50%) =	<b>43.1 tons/yr</b>
PTE of PM10 after Control =	22.0 tons/yr x (1-50%) =	<b>11.0 tons/yr</b>

**Appendix A: Emission Calculations**  
**Potential to Emit Calculations for Conveying and Handling**

**Company Name: Wabash Valley Asphalt Company, LLC**  
**Address: 2000 East County Road 800 South, Cloverdale, IN 46120**  
**FESOP #: 133-22639-00043**  
**Reviewer: ERG/SE**  
**Date: May 16, 2007**

Throughput = 250 tons/hr

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}}$$

where:

k = 0.35 (particle size multiplier for <10um)  
0.74 (particle size multiplier for <30um)  
M = 5 % moisture  
U = 12 mph mean wind speed (worst case)

Ef PM10 = 0.0010 lb/ton  
Ef PM = 0.0020

**Potential to Emit PM = 2.24 tons/yr**  
**Potential to Emit PM10 = 1.06 tons/yr**

The emission factor equation is from AP-42, Chapter 13.2.4, Equation 1 [11/06].

**Methodology:**

PTE (tons/yr) = Throughput (tons/hr) x Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Potential to Emit Calculations for Storage Piles**

**Company Name: Wabash Valley Asphalt Company, LLC**  
**Address: 2000 East County Road 800 South, Cloverdale, IN 46120**  
**FESOP #: 133-22639-00043**  
**Reviewer: ERG/SE**  
**Date: May 16, 2007**

$$E_f = \frac{1.7 * (s/1.5) * (365-p)}{235 * (f/15)} \quad \text{where:}$$

	s (% silt)	p	f	Emission Factor (lb/acre/day)
Sand	1.2	125	15	1.39
Stone	1.1	125	15	1.27
Slag	0.9	125	15	1.04
RAP	0.2	125	15	0.23

p=days of rain greater than or equal to 0.01 inches

f=% of wind greater than or equal to 12 mph

$$\text{PTE of PM (storage)} = \frac{E_f * sc * (20 \text{cuft/ton}) * (365 \text{ day/yr})}{(2000 \text{ lb/ton}) * (43560 \text{ sqft/acre}) * (12 \text{ ft})}$$

	sc (tons storage capacity)	PTE of PM (tons/yr)
Sand	10,100	0.10
Stone	N/A*	NA*
Slag	6,700	0.05
RAP	10,100	0.02
<b>Total</b>		<b>0.16</b>

PM-10 = 35% of PM:

	PTE of PM10 (tons/yr)
Sand	0.03
Stone	NA*
Slag	0.02
RAP	0.01
<b>Total</b>	<b>0.06</b>

50% is emitted after controls.

**Appendix A: Emission Calculations  
Potential to Emit Calculations for Recycling Breaker**

**Company Name: Wabash Valley Asphalt Company, LLC**  
**Address: 2000 East County Road 800 South, Cloverdale, IN 46120**  
**FESOP #: 133-22639-00043**  
**Reviewer: ERG/SE**  
**Date: May 16, 2007**

Maximum Capacity:

45 tons/hr

Emission Factor in lb/ton	Pollutant	
	PM*	PM10**
0.0024	0.0024	0.0024
Potential Emissions in tons/yr	0.47	0.47

Emission factors are from AP-42, Table 11.19.2-2 [8/04]

\*Assume PM equals PM10

\*\*PM10 emission factor for Tertiary Crushing is used as an upper limit for primary crushing.

**Methodology:**

Potential Emissions (tons/yr) = Maximum Capacity (tons/hr) x Emission Factor (lb/ton) x 8760 hrs/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations**  
**Potential to Emit Calculations for Cold Mix VOC Storage**

**Company Name: Wabash Valley Asphalt Company, LLC**  
**Address: 2000 East County Road 800 South, Cloverdale, IN 46120**  
**FESOP #: 133-22639-00043**  
**Reviewer: ERG/SE**  
**Date: May 16, 2007**

The following calculations determine the amount of VOC emissions created by the application of stockpile mix containing gelled asphalt, of which 2.5% by weight of VOC is evaporated, based on 8,760 hours of use.

VOC Emission Factor =	2.50%	weight percent flash-off of cold mix
Potential Binder Throughput (tons/yr) =	2,190,000	tons/yr stockpile mix
Limited Binder Throughput (tons/yr) =	3,586	tons/yr stockpile mix

**Potential VOC Emissions = 54,750 tons/yr**  
**Limited Potential VOC Emissions = 89.7 tons/yr**

The VOC emission calculations above are based on AP-42, Chapter 4.5 Asphalt Paving Operations (7/79).

**Methodology:**

Potential VOC Emissions (tons/yr) = Potential Throughput (tons/yr) \* wt percent flash-off

Limited Potential VOC Emissions = Limited Throughput (tons/yr) \* wt percent flash-off

**Appendix A: Emission Calculations  
Calculations Summary**

**Company Name: Wabash Valley Asphalt Company, LLC  
Address: 2000 East County Road 800 South, Cloverdale, IN 46120  
FESOP #: 133-22639-00043  
Reviewer: ERG/SE  
Date: May 16, 2007**

**Uncontrolled PTE in tons/year**

	<b>PM</b>	<b>PM-10</b>	<b>SO<sub>2</sub></b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>HAPs</b>
Aggregate Dryer/Mixer	35,040	4,928	402	131	39.4	438	50.1
Storage	0.16	0.06	----	----	----	----	----
Conveying	2.24	1.06	----	----	----	----	----
Unpaved Roads	86.2	22.0	----	----	----	----	----
Recycling	0.47	0.47	----	----	----	----	----
Hot Oil Heater	0.09	0.15	3.33	0.94	0.02	0.23	0.002
Cold Mix VOC	----	----	----	----	54,750	----	----
<b>Total</b>	<b>35,129</b>	<b>4,951</b>	<b>406</b>	<b>132</b>	<b>54,789</b>	<b>438</b>	<b>50.1</b>

**Limited Emissions in tons/year**

	<b>PM</b>	<b>PM-10</b>	<b>SO<sub>2</sub></b>	<b>NOx</b>	<b>VOC</b>	<b>CO</b>	<b>HAPs</b>
Aggregate Dryer/Mixer	86.3	86.3	95.7	29.6	8.89	98.8	18.3
Storage	0.08	0.03	----	----	----	----	----
Conveying	2.24	1.06	----	----	----	----	----
Unpaved Roads	43.1	11.0	----	----	----	----	----
Recycling	0.47	0.47	----	----	----	----	----
Hot Oil Heater	0.09	0.15	3.33	0.94	0.02	0.23	0.002
Cold Mix VOC	----	----	----	----	89.7	----	----
<b>Total</b>	<b>132</b>	<b>99.0</b>	<b>99.0</b>	<b>30.6</b>	<b>98.6</b>	<b>99.0</b>	<b>18.3</b>