



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: March 16, 2007

RE: Valley Asphalt Corporation / 139-24058-05243  
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



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
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[www.IN.gov/idem](http://www.IN.gov/idem)

Mr. Daniel T. Crago  
Valley Asphalt Corporation  
11641 Mosteller Road  
Cincinnati, OH 45241

March 16, 2007

Re: 139-24058-05243  
First Significant Revision to  
FESOP No.: 139-18283-05243

Dear Mr. Crago:

Valley Asphalt Corporation was issued a permit on March 12, 2004 for a portable hot mix asphalt plant. A letter requesting changes to this permit was received on August 16, 2006. Pursuant to the provisions of 326 IAC 2-8-11.1 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the addition of one (1) portable drum mix asphalt operation, to Valley Asphalt Corporation's existing FESOP, consisting of the following equipment:

- (a) One (1) asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack;
- (b) One (1) 100 ton storage silo;
- (c) One (1) 80 ton storage silo;
- (d) Four (4) 20 ton aggregate storage bins;
- (e) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (f) One (1) 20,000 gallon recycled No. 4 fuel oil storage tank;
- (g) One (1) 9,000 gallon No. 2 fuel oil storage tank;
- (h) One (1) liquid asphalt cement storage tank with a capacity of 25,000 gallons;
- (i) One (1) liquid asphalt cement storage tank with a capacity of 20,000 gallons; and
- (j) One (1) No. 2 distillate fuel oil fired hot oil heater, rated at 1.00 MMBtu per hour.

This modification also consists of the addition of a stationary crushed stone processing plant (Rush County Stone Company) to Valley Asphalt Corporation's existing FESOP. This stationary source was previously permitted under State Specific Operating Agreement (SSOA) No.: 139-9972-00006 issued on August 18, 1998. IDEM has determined this plant, and Valley Asphalt Corporation – Portable Plant #7 and #17 are one source. As such, the crushed stone processing plant will also be added to FESOP No.: 139-18283-05243 through Significant Permit Revision No. 139-24058-05243. There is no new construction proposed at the crushed stone processing plant.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Tanya White, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call at (973) 575-2555, ext. 3276 or dial (800) 451-6027, and ask for extension 3-6878.

Sincerely,

Original Signed By:  
Nisha Sizemore, Chief  
Permits Branch  
Office of Air Quality

Attachments

TW/EVP

cc: File – Rush County  
U.S. EPA, Region V  
Rush County Health Department  
Air Compliance Section – Herman Carney  
Compliance Data Section  
Administrative and Development  
Technical Support and Modeling



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## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT OFFICE OF AIR QUALITY

### Valley Asphalt Corporation (Portable)

(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. 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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F139-18283-05243	
Issued by: Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 12, 2004  Expiration Date: March 12, 2009
First Significant Permit Revision No.: F139-24058-05243	Pages Affected: Entire Permit
Issued by: Original Signed By: Nisha Sizemore, Branch Chief Office of Air Quality	Issuance Date: March 16, 2007  Expiration Date: March 12, 2009

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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, A.3 through A.4 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 portable drum mix asphalt concrete production plants and a stationary crushed stone processing plant.

Source Address:	5556 West SR 244 and 5814 West SR 244, Milroy, IN 46156
Mailing Address:	11641 Mosteller Road, Cincinnati, OH 45241
General Source Phone Number:	(513) 771-0820
SIC Code:	2951
County Location:	Rush
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

### A.2 Part 70 Source Definition [326 IAC 2-8-1][326 IAC 2-7-1(22)]

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This portable drum mix asphalt concrete production and stationary crushed stone processing source consists of three (3) plants:

- (a) Plant 1 (Valley Asphalt Corporation - Portable Plant #17) is currently located in Ohio;
- (b) Plant 2 (Rush County Stone Company) is located at 5556 West SR 244, Milroy, IN 46156; and
- (c) Plant 3 (Valley Asphalt Corporation - Portable Plant #7) will be located at 5814 West SR 244, Milroy, IN 46156.

IDEM, OAQ has determined that this portable drum mix asphalt concrete production and crushed stone processing source meet the definition of a single major source. The major source is composed of Plant 1 (Valley Asphalt Corporation - Portable Plant #17), Plant 2 (Rush County Stone Company) and Plant 3 (Valley Asphalt Corporation - Portable Plant #7). Plants 1 and 2 will both be located at 5556 West State Road 244 in Milroy. Plant 3 will be located at 5814 West State Road 244, less than half a mile away. Plant 2 will provide 50% or more of its output of aggregate to plants 1 and 3. All three plants are owned by Valley Asphalt Corporation.

326 IAC 2-7-1(22) sets out the definition of the term "major source". In order for these three sources to be considered one major source, they must meet all of the following criteria:

- (1) the sources must be under common ownership or control;
- (2) the sources must have the same two digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the others; and,
- (3) the sources must be located on contiguous or adjacent properties.

Since all three plants are owned by Valley Asphalt Corporation, there is common ownership. The two asphalt plants have the same two-digit SIC Code. The plant 2 is a support facility to plants 1 and 3. Plant 1 and 2 are located on contiguous property. Plant 3's location is less than half of a mile away on an adjacent property. IDEM, OAQ finds that the three plants meet the criteria of 326 IAC 2-7-1(22) and are one major source.

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

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

- (a) One (1) portable asphalt drum mixer, with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting to one (1) stack;
- (b) Three (3) portable feed conveyors;
- (c) One (1) portable No. 2 distillate fuel oil fired reciprocating internal combustion generator, rated at 8.752 MMBtu per hour, with a model date prior to April 1, 2006. The generator has not been modified;
- (d) One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack; and
- (e) A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations are controlled with a wet/continuous wet suppression system.

#### A.4 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(l)]

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

- (a) One (1) No. 2 distillate fuel oil fired AC hot oil heater, rated at 1.90 MMBtu per hour;
- (b) Four (4) liquid asphalt storage tanks, identified as AC#1, AC#2, AC#3 and AC#4, respectively, with maximum storage capacities of 25,000 gallons, 21,800 gallons, 10,280 gallons and 10,200 gallons, respectively;
- (c) One (1) dust bin silo;
- (d) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (e) Aggregate storage piles, with a maximum storage capacity of 30,000 tons;
- (f) Paved and unpaved roads and parking lots with public access; [326 IAC 6-4]
- (g) One (1) HMA silo;
- (h) One (1) 100 ton storage silo;
- (i) One (1) 80 ton storage silo;
- (j) Four (4) 20 ton aggregate storage bins;

- (k) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (l) One (1) 20,000 gallon recycled No. 4 fuel oil storage tank;
- (m) One (1) 9,000 gallon No. 2 fuel oil storage tank;
- (n) One (1) liquid asphalt cement storage tank with a capacity of 25,000 gallons;
- (o) One (1) liquid asphalt cement storage tank with a capacity of 20,000 gallons; and
- (p) One (1) No. 2 distillate fuel oil fired hot oil heater, rated at 1.00 MMBtu per hour.

A.5 FESOP Applicability [326 IAC 2-8-2]

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This 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) for 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 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

### **B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4] [326 IAC 2-8]**

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This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

### **B.4 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, F139-18283-05243, 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, until the renewal permit has been issued or denied.

### **B.5 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.6 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.7 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.8 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.9 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.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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

**B.11 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]**

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

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through 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 no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

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

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

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.14 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  
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.15** Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F139-18283-05243 and issued pursuant to permitting programs approved into the state implementation plan have been either:
  - (1) incorporated as originally stated,
  - (2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

**B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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

**B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
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.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

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(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.19 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  
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.20 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  
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.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
  
and  
  
United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590  
  
in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
  - (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.  
  
Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).
- (b) **Emission Trades [326 IAC 2-8-15(c)]**  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios Federally Enforceable State Operating Permit**  
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.22 Source Modification Requirement [326 IAC 2-8-11.1]**

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

**B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]**

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

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

**B.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
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.25 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) 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.26 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

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

B.27 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 make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (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) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred and fifty (250) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.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), when the source is located in any of the following areas:

- (1) Dearborn County, Lawrenceburg Township.
- (2) Dubois County, Bainbridge Township.
- (3) Marion County, except the area of Washington Township east of Fall Creek and the area

of Franklin Township south of Thompson Road and east of Five Points Road.

- (4) St. Joseph County, the area north of Kern Road and east of Pine Road.
- (5) Vanderburgh County, the area included in the city of Evansville and Pigeon Township.
- (6) Vigo County, the area within a five-tenths (0.5) kilometer radius circle centered at UTM Coordinates Zone 16 East four hundred sixty-four and fifty-two hundredths (464.52) kilometers North four thousand three hundred sixty-nine and twenty-one hundredths (4,369.21) kilometers, unless otherwise stated in the permit.

opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

When the source is located in an area of Indiana not listed above (1 through 6), opacity shall meet the following, unless otherwise stated in the 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 December 10, 2003. 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  
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) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. 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  
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. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

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

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

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

**C.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  
Indianapolis, Indiana 46204-2251

within 180 days from the date on which this source commences operation.

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 Federally Enforceable State Operating Permit**

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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 and 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  
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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.

### Portable Source Requirement

#### C.21 Relocation of Portable Sources [326 IAC 2-14-4]

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- (a) This permit is approved for operation in areas of Indiana except in severe nonattainment areas for ozone. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.
- (b) This source shall not re-locate to Lake, Porter, Floyd or Clark Counties.
- (c) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
  - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
  - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (e) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
  - (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - (3) Marion County - (Indianapolis Office of Environmental Services)
  - (4) Vigo County - (Vigo County Air Pollution Control)
- (f) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

## **Stratospheric Ozone Protection**

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

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

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

## SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) One (1) portable asphalt drum mixer, with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting to one (1) stack;
- (b) Three (3) portable feed conveyors;
- (c) One (1) portable No. 2 distillate fuel oil fired reciprocating internal combustion generator, rated at 8.752 MMBtu per hour, with a model date prior to April 1, 2006. The generator has not been modified;
- (d) One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack.

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

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

#### D.1.1 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the two (2) aggregate dryers and two (2) drum mixers shall each be limited to 0.03 grains per dry standard cubic foot (gr/dscf) for particulate matter.

#### D.1.2 PSD Minor Limit [326 IAC 2-2]

Particulate matter emissions from the two (2) aggregate dryers and two (2) drum mixers combined shall not exceed 0.133 pounds of PM per ton of asphalt produced.

This limits total source-wide PM emissions to less than 250 tons per year. Therefore, compliance with this limit will render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

#### D.1.3 Particulate Matter Less Than 10 Microns In Diameter (PM-10) [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, particulate matter less than 10 microns in diameter emissions from the two (2) aggregate dryers and two (2) drum mixers combined shall not exceed 0.109 pounds of PM-10 per ton of asphalt produced. This limits the entire source-wide emissions of PM-10 to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

- (a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) the following rules apply:
  - (1) Sulfur dioxide emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.4 percent (%) when using No. 2 distillate fuel oil; and

- (2) Sulfur dioxide emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 1.6 pounds per million Btu heat input or a sulfur content of less than or equal to 1.5 percent (%) when using residual or waste oil.
- (b) Pursuant to 326 IAC 7-2-1, compliance with 326 IAC 7-2-1 shall be demonstrated on a calendar month average.

D.1.5 Sulfur Dioxide (SO<sub>2</sub>) Emissions [326 IAC 2-8-4][326 IAC 2-2]

Pursuant to 326 IAC 2-8-4(1), the following limits shall apply:

- (a) The sulfur content of the waste oil used in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall not exceed 0.5%;
- (b) The combined usage of waste oil and waste oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 2,440,930 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month;
- (c) For purposes of determining compliance, every 1,000 gallons of No. 2 fuel oil burned in the aggregate dryer burners shall be equivalent to 854 gallons of waste oil based on SO<sub>2</sub> emissions and a maximum No. 2 fuel oil sulfur content of 0.4%.
- (d) The sulfur content of the No. 2 fuel oil used in the 8.752 MMBtu per hour reciprocating internal combustion generator shall not exceed 0.4%; and
- (e) The usage of No. 2 fuel oil with a sulfur content of 0.4% in the 8.752 MMBtu per hour reciprocating internal combustion generator shall be limited to 132,750 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

This limits the entire source-wide emissions of SO<sub>2</sub> to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 (PSD) will not apply.

D.1.6 Volatile Organic Compounds (VOCs), Nitrogen Oxides (NOx), and Carbon Monoxide (CO) Emissions [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4(1), the combined usage of No. 2 fuel oil and No. 2 fuel oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 5,695,786 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. The NOx emissions shall be limited to 24.0 pounds of NOx per 1,000 gallons of fuel used. This limit is required to limit source-wide emissions of NOx to less than 100 tons per year.

For purposes of determining compliance, every 1,000 gallons of waste oil burned in the aggregate dryer burners shall be equivalent to 792 gallons of No. 2 fuel oil based on NOx emissions.

This limit along with the fuel usage limit in D.1.5(e), for the reciprocating internal combustion generator, limits the source-wide emissions of NOx to less than 100 tons per year. Therefore the requirements of 326 IAC 2-7 and 326 IAC 2-2 (PSD) will not apply.

- (b) The following limits apply to the drum mixers:
- (i) The annual asphalt produced in the aggregate drum mixers shall be limited to 1,314,000 tons of asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month.
  - (ii) The CO emissions shall be limited to 0.13 pounds of CO per ton of asphalt produced. The VOC emissions shall be limited to 0.032 pounds of VOC per ton of asphalt produced.

These limits are required to limit the source-wide emissions of VOCs and CO to less than 100 tons per year each. Therefore, the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) are not applicable.

#### D.1.7 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4(1), the following limits shall apply to the aggregate dryers:

- (a) The chlorine content of the waste oil used in 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall not exceed four hundredths of a percent (0.04%) by weight.
- (b) The combined usage of waste oil in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The HCl emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to less than 26.4 pounds of HCl per 1,000 gallons of waste oil burned, based on a chlorine content limit of 0.04% by weight.

These limits are required 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.1.8 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 the aggregate dryers and drum mixers and any control devices.

### **Compliance Determination Requirements**

#### D.1.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11][40 CFR 60.93] [326 IAC 12][326 IAC 6.5-1-2]

- (a) Within 180 days of start-up, in order to demonstrate compliance with Conditions D.1.1, D.1.2, and D.1.19, the Permittee shall perform PM and PM<sub>10</sub> testing for the aggregate dryers and drum mixers stacks utilizing methods as approved by the Commissioner. This test shall be performed within five (5) years of the date of the last valid compliance demonstration. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) Pursuant to 40 CFR 60.93, compliance with the PM standards in 40 CFR 60.92 shall be determined by using Method 5 to determine particulate concentration and Method 9 to determine opacity. When determining the particulate concentration, the sampling time and sampling volume for each run shall be at least 60 minutes and 0.90 dry standard cubic meters (31.8 dry standard cubic feet).

#### D.1.10 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 five-tenths (0.5) pounds per million British thermal unit heat input when operating on No. 2 distillate oil, and one and six-tenths (1.6) pounds per million British thermal unit heat input when operating on re-refined (waste) oil 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 aggregate dryers using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.
- (c) In order to demonstrate compliance with Conditions D.1.4 and D.1.5, the Permittee shall demonstrate that the weight percent of sulfur dioxide in the fuels used does not exceed four-tenths of a percent (0.4%) by weight when operating on No. 2 distillate oil, and one half of a percent (0.5%) by weight when operating on reused (waste) oil, using the methods described in (a)(1) and (a)(2) or (b) of this condition.

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.1.11 Particulate Matter (PM and PM10) Control

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- (a) In order to comply with Conditions D.1.1, D.1.2, and D.1.19, the baghouses for particulate control shall be in operation and control emissions from the aggregate dryers and drum mixers at all times that the aggregate dryers and drum mixers are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

#### D.1.12 Hydrogen Chloride Emissions and Chlorine Content

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The Permittee shall demonstrate that the chlorine content of the fuel used for the aggregate dryers does not exceed four hundredths of a percent (0.04%) by weight, when operating on waste oil, by providing vendor analysis of fuel delivered accompanied by a vendor certification.

#### D.1.13 Visible Emissions Notations

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- (a) Visible emission notations of the aggregate dryers/mixers stack exhausts shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.1.14 Parametric Monitoring

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The Permittee shall record the pressure drop across the baghouses used in conjunction with the two (2) aggregate dryers and two (2) drum mixers, at least daily when the process is in operation, when venting to the atmosphere. When for any one reading, the pressure drop across either baghouse is outside the normal range of 2.0 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 or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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.1.15 Broken or Failed Bag Detection

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

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

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

### **D.1.16 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.5, D.1.6(a), and D.1.7 the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) below shall be complete and sufficient to establish compliance with the SO<sub>2</sub>, NO<sub>x</sub>, and HCl emission limits established in Conditions D.1.5, D.1.6(a), and D.1.7.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual waste oil and waste oil equivalent usage per month for the aggregate dryer burners since last compliance determination period. Actual No. 2 fuel oil and No. 2 fuel oil equivalent usage per month for the aggregate dryer burners since last compliance determination period;
  - (3) Actual No. 2 distillate fuel oil usage in the reciprocating internal combustion generator per month since last compliance determination period and equivalent SO<sub>2</sub> and NO<sub>x</sub> emissions;
  - (4) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (5) Fuel supplier certifications;
- (6) The name of the fuel supplier; and
- (7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (8) A statement from the fuel supplier that certifies the chlorine content of the waste 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.

- (b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in Condition D.1.10. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM, OAQ.
- (c) To document compliance with Condition D.1.13, the Permittee shall maintain daily records of visible emission notations of the aggregate dryers/drum mixer stack exhausts or maintain a record of the reason why the visible emission notations were not taken.
- (d) To document compliance with Condition D.1.14, the Permittee shall maintain daily records of the pressure drop.
- (e) The Permittee shall maintain records sufficient to verify compliance with Condition D.1.6(b).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.17 Reporting Requirements

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A quarterly summary of the information to document compliance with Conditions D.1.5, D.1.6, and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

#### D.1.18 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

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Pursuant to 40 CFR 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the aggregate dryers, drum mixers, and conveying operations in accordance with the schedule in 40 CFR 60, Subpart A.

#### D.1.19 NSPS Requirements [40 CFR Part 60, Subpart I] [ 326 IAC 20-1]

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Pursuant to 40 CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the aggregate dryers, drum mixers, and conveying operations as specified as follows:

##### **§ 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.

##### **§ 60.91 Definitions.**

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

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

##### **§ 60.92 Standard for particulate matter.**

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

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

##### **§ 60.93 Test methods and procedures.**

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.92 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dsf).

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

**SECTION D.2 FACILITY OPERATION CONDITIONS**

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

- (e) A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations are controlled with a wet/continuous wet suppression system.

(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 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the permanent crushing operation shall not exceed the following pounds per hour limit when operating at the following process weight rates in tons per hour.

Facility	Process Weight Rate (tons per hour)	Allowable PM emissions (pounds per hour)
Permanent Crushing Operation	200	58.51

The pounds per hour limitations were calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0 P^{0.11} - 40$                       where E = rate of emission in pounds per hour;  
 and P = process weight rate in tons per hour

**D.2.2 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 the permanent crushing operation and any control devices.

**Compliance Determination Requirements**

**D.2.3 PM Control**

In order to comply with Condition D.2.1, the wet suppression control methods for PM shall be in operation and control emissions from the permanent crushing operation at all times that the permanent crushing operation is in operation.

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

**D.2.4 Visible Emissions Notations**

- (a) Visible emission notations of the permanent crushing operation and associated components exhaust for evidence of holes or erosions shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

**D.2.5 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.4, the Permittee shall maintain records of visible emission notations of the permanent crushing operation and associated components exhaust once per day or maintain a record of the reason why the visible emission notations were not taken.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**D.2.6 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 permanent crushing operation, 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,  
Indianapolis, Indiana 46204-2251

**D.2.7 NSPS Requirements [40 CFR Part 60, Subpart OOO]**

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Pursuant to 40 CFR Part 60, Subpart OOO, the Permittee shall comply with the provisions of 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing for the permanent crushing operation as specified as follows:

**§ 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.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

...

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in §60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§60.672, 60.674 and 60.675.

(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.....	

-----  
**§ 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.

**§ 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.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

...

(h) 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, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

#### **§ 60.673 Reconstruction.**

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under §60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under §60.15, the "fixed capital cost of the new components" includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

#### **§ 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.

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.672(a) as follows:

...

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

...

(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.

...

(h) Initial Method 9 performance tests under §60.11 of this part and §60.675 of this subpart are not required for:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

**§ 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).

(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to §60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of §60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).

...

(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.

### **Compliance Determination Requirement**

#### **D.2.8 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]**

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Compliance with the opacity emission limitations in Condition D.2.7 shall be determined by the methods and procedures specified in 40 CFR 60.675.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

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

Source Name: Valley Asphalt Corporation  
Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156  
and 5814 West SR 244, Milroy, IN 46156)  
Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
FESOP No.: F139-18283-05243

**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  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

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

Source Name: Valley Asphalt Corporation  
Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156  
and 5814 West SR 244, Milroy, IN 46156)  
Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
FESOP No.: F139-18283-05243

**This form consists of 2 pages**

**Page 1 of 2**

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

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

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

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

**Page 2 of 2**

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

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

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

### FESOP Quarterly Report

Source Name: Valley Asphalt Corporation  
 Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156 and 5814 West SR 244, Milroy, IN 46156)  
 Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
 FESOP No.: F139-18283-05243  
 Facility: Two (2) aggregate dryer burners  
 Parameter: Fuel usage  
 Limit: 2,440,930 gallons of waste oil per twelve (12) consecutive month period, with compliance demonstrated at the end of each month, where every 1,000 gallons of No. 2 fuel oil burned shall be considered equal to 854 gallons of waste oil. This limit is equivalent to SO<sub>2</sub> emissions of less than 100 tons per year from the dryer burners.

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

Month	Column 1: Waste oil usage plus equivalent of other fuels (gallons)	Column 2: Waste oil usage plus equivalent of other fuels (gallons)	Column 1 + Column 2: Waste oil usage plus equivalent of other fuels (gallons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

### FESOP Quarterly Report

Source Name: Valley Asphalt Corporation  
 Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156 and 5814 West SR 244, Milroy, IN 46156)  
 Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
 FESOP No.: F139-18283-05243  
 Facility: Two (2) aggregate dryer burners  
 Parameter: Fuel usage  
 Limit: 5,695,786 gallons of No. 2 fuel oil per twelve (12) consecutive month period, with compliance demonstrated at the end of each month, where every 1,000 gallons of waste oil burned shall be considered equal to 792 gallons of No. 2 fuel oil. This limit is equivalent to NOx emissions of less than 100 tons per year from the dryer burners.

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

Month	Column 1: No. 2 fuel oil usage (gallons)	Column 2: No. 2 fuel oil usage (gallons)	Column 1 + Column 2: No. 2 fuel oil usage (gallons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

### FESOP Quarterly Report

Source Name: Valley Asphalt Corporation  
 Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156 and 5814 West SR 244, Milroy, IN 46156)  
 Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
 FESOP No.: F139-18283-05243  
 Facility: Two (2) aggregate dryer burners  
 Parameter: Fuel usage  
 Limit: 750,000 gallons of waste oil per twelve (12) consecutive month period, with compliance demonstrated at the end of each month. This limit is equivalent to HCl emissions of less than 10 tons per year from the dryer burners and source-wide emissions of combined HAPs of less than 25 tons per year.

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

Month	Column 1: Waste oil usage (gallons)	Column 2: Waste oil usage (gallons)	Column 1 + Column 2: Waste oil usage (gallons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

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

Attach a signed certification to complete this report.

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

### FESOP Quarterly Report

Source Name: Valley Asphalt Corporation  
Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156 and 5814 West SR 244, Milroy, IN 46156)  
Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
FESOP No.: F139-18283-05243  
Facility: Two (2) drum mixers  
Parameter: Production Limit  
Limit: 1,314,000 tons of asphalt produced per twelve (12) consecutive month period, with compliance demonstrated at the end of each month.

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

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

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: \_\_\_\_\_

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

Attach a signed certification to complete this report.

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

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

Source Name: Valley Asphalt Corporation  
 Source Address: Portable Plants (Current permitted sites: 5556 West SR 244, Milroy, IN 46156 and 5814 West SR 244, Milroy, IN 46156)  
 Mailing Address: 11641 Mosteller Road, Cincinnati, OH 45241  
 FESOP No.: F139-18283-05243

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

<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 ANo deviations occurred this reporting period<sup>o</sup>.</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

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

Form Completed By: \_\_\_\_\_

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

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

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

Attach a signed certification to complete this report.

Mail to: Permit Administration & Development Section  
Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

Valley Asphalt Corporation  
11641 Mosteller Road,  
Cincinnati, OH 45241

**Affidavit of Construction**

I, \_\_\_\_\_, being duly sworn upon my oath, depose and say:  
(Name of the Authorized Representative)

1. I live in \_\_\_\_\_ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of \_\_\_\_\_ for \_\_\_\_\_.  
(Title) (Company Name)
3. By virtue of my position with \_\_\_\_\_, I have personal  
(Company Name)  
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of \_\_\_\_\_.  
(Company Name)
4. I hereby certify that Valley Asphalt Corporation (Portable Plant #7), currently located at 5814 West SR 244, Milroy, IN, has constructed the portable asphalt drum mix plant in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on August 16, 2006, and as permitted pursuant to Significant Permit Revision **No.: 139-24058-05243, Plant ID No. 139-05243** issued on \_\_\_\_\_.

Further Affiant said not.  
I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature

Date

STATE OF INDIANA)  
  )SS  
COUNTY OF \_\_\_\_\_)

Subscribed and sworn to me, a notary public in and for \_\_\_\_\_ County and State of Indiana  
on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.  
My Commission expires:

Signature

Name (typed or printed)

## **ATTACHMENT A**

### **ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN**

- (a) The frequency of application of water and/or chemical dust suppressants shall be on an "As Needed Basis", which will be sufficient to prevent fugitive dust from crossing the property lines.
- (b) Identification of fugitive emission processes and proposed fugitive dust control methods:
  - (1) Partially paved roads and parking areas are controlled by flushing with water;
  - (2) Unpaved roads and yard areas are controlled by treatment with water;
  - (3) Aggregate storage piles are controlled by treatment with water;
  - (4) Aggregate dryer/mixing drum controls dust with a 99.9% control efficiency;
- (c) Unpaved/Paved Road Vehicle Mix: (approximately 85% vehicular traffic will be dump-trucks having a 20 ton payload capacity);
- (d) Type and Quantity of Material Stored: Aggregate will consist of sand, gravel, and crushed stone and will be handled at the maximum rate of 505 tons/hr;
- (e) Equipment: Front-end loaders are used to maintain roads, yards, and storage piles;
- (f) Dust Suppressant Material: Water is primary dust suppressant. Water has an estimated 90% control efficiency. Calcium chloride or other approved chemical dust inhibitor may be added to water on an as needed basis to further reduce emissions of fugitive dust. Such chemical dust suppressants are mixed and applied as recommended by the product manufacturer;
- (g) Equipment Maintenance Plan: The front-end loaders are serviced/maintained regularly and the baghouse will be checked daily and on an annual basis.

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

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

**Source Background and Description**

<b>Source Name:</b>	Valley Asphalt Corporation
<b>Source Location:</b>	5556 West SR 244, Milroy, IN 46156
<b>County:</b>	Rush
<b>SIC Code:</b>	2951 and 1422
<b>Significant Permit Revision No.:</b>	SPR139-24058-05243
<b>Permit Reviewer:</b>	Tanya White/EVP

On January 26, 2007 the Office of Air Quality (OAQ) had a notice published in the *Rushville Republican*, Rushville, Indiana, stating that Valley Asphalt Corporation had applied for a Significant Permit Revision to their Federally Enforceable State Operating Permit (FESOP) to operate drum mix asphalt production plants and a stone crushing plant. The notice also stated that OAQ proposed to issue a Significant Permit Revision to the FESOP for this operation and provided information on how the public could review the proposed Significant Permit Revision and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this Significant Permit Revision should be issued as proposed.

Upon further review IDEM, OAQ has made the following changes to the source's FESOP through Significant Permit Revision No.: 139-24058-05243 (additions in bold, deletions in ~~strikeout~~):

1. IDEM has revised Permit Condition A.1 to remove reference to the Authorized Individual.

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

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The Permittee owns and operates portable drum mix asphalt concrete production plants and a stationary crushed stone processing plant.

<del>Authorized Individual:</del>	<del>Environmental and Quality Control Manager</del>
Source Address:	5556 West SR 244 and 5814 West SR 244, Milroy, IN 46156
Mailing Address:	11641 Mosteller Road, Cincinnati, OH 45241
General Source Phone Number:	(513) 771-0820
SIC Code:	2951
County Location:	Rush
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

2. Permit Condition D.1.7 was revised to include a waste oil chlorine content limit of 0.04% by weight. Additionally, an emission limit of 26.4 pounds of HCl per 1,000 gallons of waste oil burned was added to this condition. These limits are required in order to limit emissions of HCl and source-wide combined hazardous air pollutants (HAPs) to less than 10 and 25 tons per year, respectively.

**D.1.7 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]**

---

Pursuant to 326 IAC 2-8-4(1), the combined usage of waste oil in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that source-wide HCl emissions are limited to less than 10 tons per year and the source-wide combined HAP emissions are limited to less than 25 tons per year. Therefore the requirements of 326 IAC 2-7 will not apply.

**Pursuant to 326 IAC 2-8-4(1), the following limits shall apply to the aggregate dryers:**

- (a) The chlorine content of the waste oil used in 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall not exceed four hundredths of a percent (0.04%) by weight.**
- (b) The combined usage of waste oil in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.**
- (c) The HCl emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to less than 26.4 pounds of HCl per 1,000 gallons of waste oil burned, based on a chlorine content limit of 0.04% by weight.**

**These limits are required 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.**

...

- 3. Permit Conditions D.1.9, D.1.11, and D.1.15 (renumbered D.1.16) were revised to reference the correct permit conditions as several permit conditions have been renumbered.

**D.1.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11][40 CFR 60.93]  
[326 IAC 12][326 IAC 6.5-1-2]**

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- (a) Within 180 days of start-up, in order to demonstrate compliance with Conditions D.1.1, D.1.2, and ~~D.1.18~~D.1.19, the Permittee shall perform PM and PM<sub>10</sub> testing for the aggregate dryers and drum mixers stacks utilizing methods as approved by the Commissioner. This test shall be performed within five (5) years of the date of the last valid compliance demonstration. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C - Performance Testing.**
- (b) Pursuant to 40 CFR 60.93, compliance with the PM standards in 40 CFR 60.92 shall be determined by using Method 5 to determine particulate concentration and Method 9 to determine opacity. When determining the particulate concentration, the sampling time and sampling volume for each run shall be at least 60 minutes and 0.90 dry standard cubic meters (31.8 dry standard cubic feet).**

...

**D.1.11 Particulate Matter (PM and PM10) Control**

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- (a) In order to comply with Conditions D.1.1, D.1.2, and ~~D.1.18~~D.1.19, the baghouses for particulate control shall be in operation and control emissions from the aggregate dryers and drum mixers at all times that the aggregate dryers and drum mixers are in operation.**

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.  
...
4. Compliance Determination Requirements were added in permit Condition D.1.12 to ensure that the source is able to demonstrate that the chlorine content of waste oil used for the aggregate dryers is less than 0.04% by weight. The permit Table of Contents has been revised to include reference to this condition. Additionally, all subsequent permit conditions have been renumbered accordingly.

Compliance Determination Requirements

...

**D.1.12 Hydrogen Chloride Emissions and Chlorine Content**

---

**The Permittee shall demonstrate that the chlorine content of the fuel used for the aggregate dryers does not exceed four hundredths of a percent (0.04%) by weight, when operating on waste oil, by providing vendor analysis of fuel delivered accompanied by a vendor certification.**

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

**D.1.13 Visible Emissions Notations**

---

- (a) Visible emission notations of the aggregate dryers/mixers stack exhausts shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

**D.1.14 Parametric Monitoring**

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The Permittee shall record the pressure drop across the baghouses used in conjunction with the two (2) aggregate dryers and two (2) drum mixers, at least daily when the process is in operation, when venting to the atmosphere. When for any one reading, the pressure drop across either baghouse is outside the normal range of 2.0 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 or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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~~**D.1.15** Broken or Failed Bag Detection

---

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

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

- 5. Permit Condition D.1.15 (renumbered D.1.16) has been revised to include a requirement for the source to maintain a statement from the fuel supplier that certifies the chlorine content of the waste oil.

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

~~D.1.15~~**D.1.16** Record Keeping Requirements

---

- (a) To document compliance with Conditions D.1.5, D.1.6(a), and D.1.7 the Permittee shall maintain records in accordance with (1) through (7~~8~~) below. Records maintained for (1) through (7~~8~~) below shall be complete and sufficient to establish compliance with the SO<sub>2</sub>, NO<sub>x</sub>, and HCl emission limits established in Conditions D.1.5, D.1.6(a), and D.1.7.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual waste oil and waste oil equivalent usage per month for the aggregate dryer burners since last compliance determination period. Actual No. 2 fuel oil and No. 2 fuel oil equivalent usage per month for the aggregate dryer burners since last compliance determination period;
  - (3) Actual No. 2 distillate fuel oil usage in the reciprocating internal combustion generator per month since last compliance determination period and equivalent SO<sub>2</sub> and NO<sub>x</sub> emissions;
  - (4) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (5) Fuel supplier certifications;
- (6) The name of the fuel supplier; and

- (7) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (8) A statement from the fuel supplier that certifies the chlorine content of the waste 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.

- (b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in Condition D.1.10. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM, OAQ.
- (c) To document compliance with Condition ~~D.1.12~~**D.1.13**, the Permittee shall maintain daily records of visible emission notations of the aggregate dryers/drum mixer stack exhausts or maintain a record of the reason why the visible emission notations were not taken.
- (d) To document compliance with Condition ~~D.1.13~~**D.1.14**, the Permittee shall maintain daily records of the pressure drop.
- (e) The Permittee shall maintain records sufficient to verify compliance with Condition D.1.6(b).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**~~D.1.16~~D.1.17 Reporting Requirements**

---

A quarterly summary of the information to document compliance with Conditions D.1.5, D.1.6, and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- 6. The heading for New Source Performance Standards (NSPS) Requirements in permit Section D.1 was revised to reference the correct rule citation for a Federally Enforceable State Operating Permit (FESOP).

New Source Performance Standards (NSPS) Requirements ~~[326 IAC 2-7-5(1)]~~**[326 IAC 2-8-4(1)]**

**~~D.1.17~~D.1.18 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]**

---

Pursuant to 40 CFR 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the aggregate dryers, drum mixers, and conveying operations in accordance with the schedule in 40 CFR 60, Subpart A.

**~~D.1.18~~D.1.19 NSPS Requirements [40 CFR Part 60, Subpart I] [ 326 IAC 20-1]**

---

Pursuant to 40 CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the aggregate dryers, drum mixers, and conveying operations as specified as follows:

...

7. The heading for New Source Performance Standards (NSPS) Requirements in permit Section D.2 was revised to reference the correct rule citation for a Federally Enforceable State Operating Permit (FESOP).

New Source Performance Standards (NSPS) Requirements ~~[326 IAC 2-7-5(1)]~~**[326 IAC 2-8-4(1)]**

...

8. Information that was provided in the Technical Support Document (TSD) is being revised through this Addendum to provide clarification on the Potential to Emit (PTE) for this source. The discussion in the TSD under "Potential to Emit Before Controls - Prior to the Modification" appears to contradict the TSD discussion under "Justification for Modification" in regards to the hazardous air pollutants (HAPs). Under "Potential to Emit Before Controls - Prior to the Modification" it was indicated that the PTE of HCl emissions and combined HAPs are less than 10 and 25 tons per year, respectively. However, the discussion under "Justification for Modification" indicated that the PTE of HCl emissions and combined HAPs are greater than 10 and 25 tons per year, respectively. The reason for this apparent contradiction is that this source went from being a minor source of HAPs before the Significant Permit Revision to a major source of HAPs after the Significant Permit Revision based on the potential emissions. The information under "Potential to Emit Before Controls" is being revised to clarify any inconsistencies.

Additionally, the TSD is being revised to provide clarification on the reason why the requirements of 326 IAC 8-5-2 (Asphalt Paving Rules) have not been incorporated into the permit. The requirements of 326 IAC 8-5-2 are not applicable to this source because the source does not use asphalt cutback or asphalt emulsions in the portable drum mix asphalt plants.

The Office of Air Quality prefers that the Technical Support Document reflect the permit that was on public notice. Changes to technical support material that occur after the public notice are documented in the Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of changes are documented and are part of the record regarding the permit decision. The following revisions are being made to the TSD as documented in this addendum:

Potential To Emit Before Controls – ~~Prior to Significant Revision~~**Modification**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	greater than 250
PM-10	greater than 250
SO <sub>2</sub>	greater than 250
VOC	less than 100
CO	<del>less</del> greater than 100
NO <sub>x</sub>	greater than 100, less than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	Unrestricted Potential Emissions (tons/yr)
Arsenic	less than 10
Benzene	less than 10
Beryllium	less than 10
Cadmium	less than 10
Chromium	less than 10
Ethylbenzene	less than 10
Formaldehyde	less than 10
Hexane	less than 10
Hydrogen Chloride	<del>less</del> greater than 10
2,2,4 Trimethylpentane	less than 10
Lead	less than 10
Manganese	less than 10
Mercury	less than 10
Methyl Chloroform	less than 10
Nickel	less than 10
Selenium	less than 10
Toluene	less than 10
Total Polycyclic Organic Matter	less than 10
Xylene	less than 10
Total HAPs	<del>less</del> greater than 25

326 IAC 8-5 (Miscellaneous Operations)

This source, constructed after January 1, 1980 is not subject to the requirements of 326 IAC 8-5 because this source does not have operations as specified in 326 IAC 8-5-2 through 326 IAC 8-5-5. **Although this source operates portable asphalt plants, cutback asphalt or asphalt emulsions are not utilized by either plant. Therefore, the requirements of 326 IAC 8-2-5 (Asphalt Paving Rules) have not been incorporated into the permit because the source does not have operations as described in 326 IAC 8-5-2.**

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

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

**Source Background and Description**

<b>Source Name:</b>	Valley Asphalt Corporation
<b>Source Location:</b>	5556 West SR 244, Milroy, IN 46156
<b>County:</b>	Rush
<b>SIC Code:</b>	2951 and 1422
<b>Operation Permit No.:</b>	F139-18283-05243
<b>Operation Permit Issuance Date:</b>	March 12, 2004
<b>Significant Permit Revision No.:</b>	139-24058-05243
<b>Permit Reviewer:</b>	Tanya White/EVP

The Office of Air Quality (OAQ) has reviewed a revision application from Valley Asphalt Corporation relating to the proposed operation and construction of a new portable drum mix asphalt production plant that will be located adjacent to a permitted portable drum mix asphalt plant and a permitted stationary crushed stone processing plant.

**History**

On August 16, 2006, Valley Asphalt Corporation submitted an application to the OAQ requesting to construct and operate a new portable drum mix asphalt production plant that will be located adjacent to a crushed stone processing plant (Rush County Stone Company) and a portable asphalt plant (Valley Asphalt Corporation - Plant #17). The Rush County Stone Company plant has an existing Source Specific Operating Agreement (SSOA) (No.: 139-9972-00006) and is owned and operated by Valley Asphalt Corporation. The portable drum mix plant (Valley Asphalt Corporation - Plant #17) is also owned and operated by Valley Asphalt Corporation. This portable plant was permitted under FESOP No.: 139-18283-05243 but is not currently located at 5556 West SR 244. This plant is currently operated in Ohio. The proposed portable asphalt plant will be added to FESOP No.: 139-18283-05243 through the proposed significant permit revision. The Rush County Stone Company plant, which has a support relationship with the proposed portable plant, will also be added to FESOP No.: 139-18283-05243 through the proposed significant permit revision.

**Source Definition**

This portable drum mix asphalt concrete production and stationary crushed stone processing source consists of three (3) plants:

- (a) Plant 1 (Valley Asphalt Corporation - Portable Plant #17) is currently located in Ohio;
- (b) Plant 2 (Rush County Stone Company) is located at 5556 West SR 244, Milroy, IN 46156; and
- (c) Plant 3 (Valley Asphalt Corporation - Portable Plant #7) will be located at 5814 West SR 244, Milroy, IN 46156.

IDEM, OAQ has determined that this portable drum mix asphalt concrete production and crushed stone processing source meet the definition of a single major source. The major source is composed of Plant 1 (Valley Asphalt Corporation - Portable Plant #17), Plant 2 (Rush County Stone Company) and Plant 3 (Valley Asphalt Corporation - Portable Plant #7). Plants 1 and 2 will both be located at 5556 West State Road 244 in Milroy. Plant 3 will be located at 5814 West State Road 244, less than half a mile away. Plant 2 will provide 50% or more of its output of aggregate to plants 1 and 3. All three plants are owned by Valley Asphalt Corporation.

326 IAC 2-7-1(22) sets out the definition of the term "major source". In order for these three sources to be considered one major source, they must meet all of the following criteria:

- (1) the sources must be under common ownership or control;
- (2) the sources must have the same two digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the others; and,
- (3) the sources must be located on contiguous or adjacent properties.

Since all three plants are owned by Valley Asphalt Corporation, there is common ownership. The two asphalt plants have the same two-digit SIC Code. The plant 2 is a support facility to plants 1 and 3. Plant 1 and 2 are located on contiguous property. Plant 3's location is less than half of a mile away on an adjacent property. IDEM, OAQ finds that the three plants meet the criteria of 326 IAC 2-7-1(22) and are one major source.

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

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

- (a) One (1) portable asphalt drum mixer, with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting to one (1) stack;
- (b) Three (3) portable feed conveyors;
- (c) One (1) portable No. 2 distillate fuel oil fired reciprocating internal combustion generator, rated at 8.752 MMBtu per hour, with a model date prior to April 1, 2006. The generator has not been modified; and
- (d) A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations equipped with a wet/continuous wet suppression system.

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

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

### **New Emission Units and Pollution Control Equipment Receiving Prior Approval**

The application includes information relating to the prior approval for the construction and operation of the following equipment pursuant to 326 IAC 2-7-5(16):

- (a) One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack.

### Insignificant Activities

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

- (a) One (1) No. 2 distillate fuel oil fired AC hot oil heater, rated at 1.90 MMBtu per hour;
- (b) Four (4) liquid asphalt storage tanks, identified as AC#1, AC#2, AC#3 and AC#4, respectively, with maximum storage capacities of 25,000 gallons, 21,800 gallons, 10,280 gallons and 10,200 gallons, respectively;
- (c) One (1) dust bin silo;
- (d) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (e) Aggregate storage piles, with a maximum storage capacity of 30,000 tons;
- (f) Paved and unpaved roads and parking lots with public access; [326 IAC 6-4]
- (g) One (1) HMA silo;
- (h) One (1) 100 ton storage silo;
- (i) One (1) 80 ton storage silo;
- (j) Four (4) 20 ton aggregate storage bins;
- (k) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (l) One (1) 20,000 gallon recycled No. 4 fuel oil storage tank;
- (m) One (1) 9,000 gallon No. 2 fuel oil storage tank;
- (n) One (1) liquid asphalt cement storage tank with a capacity of 25,000 gallons;
- (o) One (1) liquid asphalt cement storage tank with a capacity of 20,000 gallons; and
- (p) One (1) No. 2 distillate fuel oil fired hot oil heater, rated at 1.00 MMBtu per hour.

### Existing Approvals

The source was issued a Federally Enforceable State Operating Permit (FESOP) No.: 139-18283-05243 on March 12, 2004. The source has not been issued any other approvals since issuance of this FESOP. The Rush County Stone Company was previously issued Source Specific Operating Agreement No.: 139-9972-00006 on August 18, 1998; however this plant and the Valley Asphalt Corporation - Portable Plant #7 will be added to FESOP No.: 139-18283-05243 through this Significant Permit Revision No.: 139-24058-05243.

### Enforcement Issue

There are no enforcement actions pending.

### Stack Summary for the Proposed Revision

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
01	Aggregate Dryer	42	75 x 27	54,000	300

### Recommendation

The staff recommends to the Commissioner that the Significant Permit Revision 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 application for the purposes of this review was received on August 16, 2006. Additional information was received on October 31, 2006.

### Emission Calculations

See Appendix A.1 and Appendix A.2 of this document for detailed emissions calculations (pages 1 through 8 and pages 1 through 6, respectively).

### Potential To Emit Before Controls – Prior to Significant Revision

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	greater than 250
PM-10	greater than 250
SO <sub>2</sub>	greater than 250
VOC	less than 100
CO	less than 100
NO <sub>x</sub>	greater than 100, less than 250

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	Unrestricted Potential Emissions (tons/yr)
Arsenic	less than 10
Benzene	less than 10
Beryllium	less than 10
Cadmium	less than 10
Chromium	less than 10
Ethylbenzene	less than 10
Formaldehyde	less than 10
Hexane	less than 10
Hydrogen Chloride	less than 10
2,2,4 Trimethylpentane	less than 10
Lead	less than 10
Manganese	less than 10
Mercury	less than 10
Methyl Chloroform	less than 10
Nickel	less than 10
Selenium	less than 10
Toluene	less than 10
Total Polycyclic Organic Matter	less than 10
Xylene	less than 10
Total HAPs	less than 25

**Justification for Modification**

The FESOP is being modified through a Significant Permit Revision. This modification is being performed pursuant to 326 IAC 2-8-11.1(f)(1)(E) because potential unlimited emissions of PM/PM-10, VOC, NOx, CO, and SO<sub>2</sub> from the modification are greater than twenty-five (25) tons per year and pursuant to 326 IAC 2-8-11.1(f)(1)(G) because potential unlimited emissions of HCl and total HAPs are greater than 10 and 25 tons per year, respectively.

### County Attainment Status

The source is located in Rush County.

Pollutant	Status
PM-10	Attainment
PM-2.5	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC emissions and NOx are considered when evaluating the rule applicability relating to ozone. Rush County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions and NOx were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (c) Rush County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 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 for the source section.
- (d) Rush County has been classified as attainment or unclassifiable in Indiana for all other regulated air 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 for the source section.

**Source Status - After the Modification**

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

<b>Pollutant</b>	<b>Emissions (tons/year)</b>
PM	Less than 250
PM-10	Less than 100
SO <sub>2</sub>	Less than 100
VOC	Less than 100
CO	Less than 100
NOx	Less than 100

<b>HAP</b>	<b>Emissions (tons/year)</b>
Acetaldehyde	0.21
Acrolein	0.02
Arsenic	0.00
Benzene	0.26
Beryllium	0.00
Cadmium	0.00
Chromium	0.00
Cobalt	0.00
Ethylbenzene	0.16
Formaldehyde	2.04
Hexane	0.60
Hydrogen Chloride	9.90
2,2,4 Trimethylpentane	0.03
Lead	0.00
Manganese	0.00
Mercury	0.00
Methyl Chloroform	0.03
Propionaldehyde	0.09
Quinone	0.11
Nickel	0.00
Selenium	0.00
Toluene	0.58
Total Polycyclic Organic Matter	0.58
Xylene	0.13
Total HAPs	Less than 25

- (a) 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 more, and it is not one of the 28 listed source categories under 326 IAC 2-2 (PSD).
- (b) These emissions are based upon the permit revision application submitted by the source.

### Potential to Emit After Controls After Modification

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units after the modification.

Process/emission unit	Potential to Emit After Issuance (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Aggregate Dryers and Burners	87.62 <sup>(3)</sup>	71.75 <sup>(4)</sup>	89.70 <sup>(8)</sup>	21.02 <sup>(2)</sup>	85.41 <sup>(2)</sup>	68.35 <sup>(7)</sup>	< 10 <sup>(1)</sup>
Hot Oil Heaters	0.18	0.30	6.44	0.03	0.45	1.81	negligible
Internal Combustion Generator <sup>(5)</sup>	0.93	0.53	3.75	0.84	7.90	29.74	negligible
Conveying/Handling	12.23	5.78	-	-	-	-	negligible
Unpaved/paved Roads <sup>(6)</sup>	21.39	5.76	-	-	-	-	-
Aggregate Storage	0.43	0.15	-	-	-	-	-
Load-out/Silo Filling	2.45	2.45	-	35.60	5.59	-	0.49
Crushing Operations <sup>(6)</sup>	32.23	7.39	-	-	-	-	-
Total PTE After Issuance	< 250	< 100	< 100	< 100	< 100	< 100	< 25

- (1) Limited PTE based on re-refined waste oil with a hydrogen chloride content of 0.4%, and a waste oil usage limitation of 750,000 gallons per year in order to comply with 326 IAC 2-8 (FESOP).
- (2) Limited PTE based on an annual production limit of 1,314,000 tons of asphalt per year. Maximum allowable emissions in order to comply with 326 IAC 2-8 (FESOP) for a single HAP (HCl) and combined HAPs.
- (3) Maximum allowable PM emissions in order to comply with 326 IAC 6.5-1-2 (Particulate Emission Limitations).
- (4) Maximum allowable emissions in order to comply with 326 IAC 2-8 (FESOP). Allowable emissions were determined by using 99.9 tons per year as the allowable limit and subtracting the PM-10 emissions from other sources. Uncontrolled PM-10 emissions from silo-filling, load-out, storage piles, and conveying/handling along with the controlled PM-10 emissions from other source (if controlled) were used to determine the PM-10 emissions from all other sources.
- (5) Limited PTE for the Internal Combustion Generator based on No. 2 distillate fuel oil with a sulfur content of 0.4% by weight and/or a No. 2 fuel oil usage limitation of 132,750 gallons per year in order to comply with 326 IAC 2-8 (FESOP).
- (6) Potential to emit after controls/limitations.
- (7) Limited PTE based on the No. 2 fuel oil usage limitation of 5,695,786 gallons per year in order to comply with 326 IAC 2-8 (FESOP) for NO<sub>x</sub> emissions.
- (8) Limited PTE based on the waste oil usage limitation of 2,440,930 gallons per year in order to comply with 326 IAC 2-8 (FESOP) for SO<sub>2</sub> emissions.

This modification to an existing minor stationary source is not major because the emissions are limited to less than 100 tons for each regulated pollutant, except for PM which is limited to less than 250 tons per year. Therefore, emissions are limited below PSD major source thresholds and the requirements of 326 IAC 2-2 (PSD) do not apply.

### Portable Source

- (a) Initial Location  
 This source consists of two portable plants. The proposed location for the Valley Asphalt Corporation - Portable Plant #7 is 5814 West SR 244, Milroy, IN 46156. The portable asphalt plant, permitted under FESOP No. 139-18283-05243 is currently located in Ohio.

- (b) This source cannot relocate to the following Counties: Lake, Porter, Clark, and Floyd Counties.
- (c) PSD and Emission Offset Requirements  
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and Emission Offset, 326 IAC 2-3.
- (d) Fugitive Emissions  
This type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2 (PSD) or 326 IAC 2-3 (Emission Offset). Since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD applicability.

### Federal Rule Applicability

- (a) The proposed portable drum hot mix asphalt plant to be constructed upon issuance of the permit is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60, Subpart I) because it meets the definition of a hot mix asphalt facility pursuant to the rule and was constructed after June 11, 1973. This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. The following emission unit is subject to this rule:
  - (1) One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack.

The requirements of 40 CFR 60, Subpart I are also applicable to the portable drum hot mix asphalt plant permitted under FESOP No. 139-18283-05243 as described below:

- (2) One (1) portable asphalt drum mixer, with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting to one (1) stack; and
- (3) Three (3) portable feed conveyors.

The format for incorporating the NSPS language into the permit for this portable drum mix plant is also being revised through this permit revision.

The aggregate dryers and aggregate drum mixers from both plants are subject to the following portions of 40 CFR 60, Subpart I:

- (1) 40 CFR 60.90.
- (2) 40 CFR 60.91.
- (3) 40 CFR 60.92.
- (4) 40 CFR 60.93.

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

- (b) The requirements of the New Source Performance Standards, 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) are included in the permit for the permanent crushing operation. The crusher was constructed after the August 31, 1983 rule applicability date and is part of a fixed nonmetallic mineral processing plant.

The following emission units are subject to this rule:

- (1) A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations equipped with a wet/continuous wet suppression system.

The following opacity limitations are applicable:

- (1) the crushing operations is limited to fifteen percent (15%) opacity or less, and  
(2) the screening and conveying operations are limited to ten percent (10%) opacity or less.

The New Source Performance Standard 326 IAC 12 (40 CFR 60.670 through 60.676, Subpart OOO) (Standards of Performance for Nonmetallic Mineral Processing Plants) is not included in this permit for the recycled asphalt pavement (RAP) usage since the RAP is received onsite ready-to-use, and there is no crushing or grinding of the RAP prior to loading it into the first storage silo/bin.

Nonapplicable portions of the NSPS will not be included in the permit. The permanent crushing operation is subject to the following portions of Subpart OOO:

- (1) 40 CFR 60.670(a)(1).
- (2) 40 CFR 60.670(a)(2).
- (3) 40 CFR 60.670(d)(1).
- (4) 40 CFR 60.670(d)(2).
- (5) 40 CFR 60.670(d)(3).
- (6) 40 CFR 60.670(e).
- (7) 40 CFR 60.670(f).
- (8) 40 CFR 60.671.
- (9) 40 CFR 60.672(b).
- (10) 40 CFR 60.672(c).
- (11) 40 CFR 60.672(d).
- (12) 40 CFR 60.672(h).
- (13) 40 CFR 60.673.
- (14) 40 CFR 60.675(a).
- (15) 40 CFR 60.675(b)(2).
- (16) 40 CFR 60.675(c)(1).
- (17) 40 CFR 60.675(c)(3).
- (18) 40 CFR 60.675(c)(4).
- (19) 40 CFR 60.675(e).
- (20) 40 CFR 60.675(h).
- (21) 40 CFR 60.676(a).
- (22) 40 CFR 60.676(f).
- (23) 40 CFR 60.676(g).
- (24) 40 CFR 60.676(j).

The provisions of 40 CFR 60 Subpart A – General Provisions, apply to the facilities described in this section except when otherwise specified in 40 CFR 60, Subpart OOO.

- (c) The requirements of the NSPS, 40 CFR 60, Subpart Kb are not included in this permit for the two (2) 25,000 gallon liquid asphalt storage tanks, the one (1) 20,000 gallon liquid asphalt storage tank, the one (1) 21,800 gallon liquid asphalt storage tank, and the one (1) 20,000 gallon storage tank for recycled No. 4 fuel oil because each tank has a storage capacity greater than 75 cubic meters but less than 151 cubic meters, and the liquid stored in each tank has a maximum true vapor pressure of less than 15.0 kPa.
- (d) The requirements of the NSPS, 40 CFR 60, Subpart Kb are not included in this permit for the one (1) 9,000 gallon No. 2 distillate fuel oil storage tank, the one (1) 10,200 gallon liquid storage tank, and the one (1) 10,280 gallon liquid storage tank because each tank has a storage capacity that is less than 75 cubic meters.
- (e) The generator is not subject to the requirements of the New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines (NSPS) (40 CFR Part 60, Subpart IIII) because the model date of the generator is prior to April 1, 2006 and the generator has not been modified since it was installed. As such, the requirements of 40 CFR 60, Subpart IIII are not included in the permit for the generator.
- (f) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit.
- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 40 CFR 61, and 40 CFR 63) included in this permit.
- (h) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source. Generally, such requirements apply to a Part 70 source that involves a pollutant-specific emissions unit (PSEU), as defined in 40 CFR 64.1, that meets the following criteria:
  - (1) the unit is subject to an emission limitation or standard for an applicable regulated air pollutant,
  - (2) the unit uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard, and
  - (3) the unit has a potential to emit before controls equal to or greater than the applicable Part 70 major source threshold for the regulated pollutant.

As a FESOP source, this source has accepted federally enforceable limits such that the requirements of 326 IAC 2-7 (Part 70) do not apply. Therefore, the requirements of 40 CFR 64, Compliance Assurance Monitoring, are not included in this permit.

## State Rule Applicability - Entire Source

### 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset)

This source is not subject to the requirements of these rules. As shown in the Potential to Emit After Issuance table, the allowable emissions of all regulated pollutants, except PM, are less than 100 tons per year after application of all federally enforceable emission limits. (See 326 IAC 2-8-4 (FESOP) discussion below.) PM emissions are limited to less than 250 tons per year. The particulate emission limit for the aggregate dryer burners and the drum mixers is 0.133 lb/ton of asphalt mix (based on limits in 326 IAC 6.5-1-2(a)). The requirements of 326 IAC 2-3 (Emission Offset) apply to major sources or major modifications constructed in an area designated as nonattainment. Since this source is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone, the applicability threshold for 326 IAC 2-3 (Emission Offset) is 100 tons per year for PM<sub>10</sub>, SO<sub>2</sub>, VOC, NO<sub>x</sub>, and CO. Emissions of PM<sub>10</sub>, SO<sub>2</sub>, VOC, NO<sub>x</sub>, and CO are each limited to less than 100 tons per year by 326 IAC 2-8 (FESOP). The source has indicated that they do not intend on relocating the portable source to Lake or Porter Counties, which are now designated as moderate nonattainment areas for ozone under the 8-hour standard. Therefore the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply. The source shall not relocate to Lake, Porter, Clark, and Floyd Counties.

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

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any source that constructs or reconstructs a major source of HAPs, which has the potential to emit (PTE) of 10 tons per year of any single HAP or 25 tons per year of any combination of HAPs, must control emissions from that source using technologies consistent with the Maximum Achievable Control Technology (MACT). This source has limited potential single HAP and total HAP emissions of less than 10 and 25 tons per year, respectively; therefore, this rule does not apply.

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

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it will not be located in Lake or Porter counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply. This source is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone and except in Lake, Porter, Clark, and Floyd Counties.

### 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), when the source is located in any of the following areas:

- (1) Dearborn County, Lawrenceburg Township.
- (2) Dubois County, Bainbridge Township .
- (3) Marion County, except the area of Washington Township east of Fall Creek and the area of Franklin Township south of Thompson Road and east of Five Points Road.
- (4) St. Joseph County, the area north of Kern Road and east of Pine Road.
- (5) Vanderburgh County, the area included in the city of Evansville and Pigeon Township.
- (6) Vigo County, the area within a five-tenths (0.5) kilometer radius circle centered at UTM Coordinates Zone 16 East four hundred sixty-four and fifty-two hundredths (464.52) kilometers North four thousand three hundred sixty-nine and twenty-one hundredths (4,369.21) kilometers, unless otherwise stated in the permit.

opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.

When the source is located in an area of Indiana not listed above (1 through 6), opacity shall meet the following, unless otherwise stated in the 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.

This source shall not re-locate to Lake, Porter, Floyd or Clark Counties.

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

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the following limits shall apply:

- (a) Particulate matter less than 10 microns in diameter (PM-10) emissions from the two (2) aggregate dryers and two (2) drum mixers combined shall not exceed 0.109 pounds of PM-10 per ton of asphalt produced. This limits the entire source-wide emissions of PM-10 to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (b) The sulfur content of the waste oil used in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall not exceed 0.5 percent.

Note: The source has requested a limit on the maximum sulfur content by weight, for waste oil, of 0.5%.

- (c) The combined usage of waste oil and waste oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 2,440,930 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. This limits the entire source-wide emissions of SO<sub>2</sub> to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

For purposes of determining compliance, every 1,000 gallons of No. 2 fuel oil burned in the aggregate dryer burners shall be equivalent to 854 gallons of waste oil based on SO<sub>2</sub> emissions and a maximum No. 2 fuel oil sulfur content of 0.4%.

- (d) The combined usage of waste oil in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. This limits the entire source-wide emissions of each single HAP to less than 10 tons per year and the source-wide emissions of combined HAPs to less than 25 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply.
- (e) The combined usage of No. 2 fuel oil and No. 2 fuel oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 5,695,786 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. The NOx emissions shall be limited to 24.0 pounds of NOx per 1,000 gallons of fuel used. This limits the entire source-wide emissions of NOx to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

The NOx emission factor of 24.0 pounds of NOx per 1,000 gallons of No. 2 fuel oil is based on the US EPA AP-42, 5<sup>th</sup> Edition (Section 1.3 Fuel Oil Combustion).

For purposes of determining compliance, every 1,000 gallons of waste oil burned in the aggregate dryer burners shall be equivalent to 792 gallons of No. 2 fuel oil based on NOx emissions.

- (f) The following limits apply to the drum mixers:
- (1) The annual asphalt produced in the aggregate drum mixers shall be limited to 1,314,000 tons of asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month.
  - (2) The CO emissions shall be limited to 0.13 pounds of CO per ton of asphalt produced. The VOC emissions shall be limited to 0.032 pounds of VOC per ton of asphalt produced.

These limits are required to limit the source-wide emissions of VOCs and CO to less than 100 tons per year each. Therefore, the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) are not applicable.

This throughput limit is based on the US EPA AP-42, 5<sup>th</sup> Edition (Section 11.1- Hot Mix Asphalt Plants (drum mixer with a waste oil-fired dryer)) CO emission factor of 0.13 pounds of CO per ton of asphalt produced and VOC emission factor of 0.032 pounds of VOC per ton of asphalt produced.

- (g) The sulfur content of the No. 2 fuel oil used in the 8.752 MMBtu per hour reciprocating internal combustion generator shall not exceed 0.4 percent.
- (h) The usage of No. 2 fuel oil with a sulfur content of 0.4% in the 8.752 MMBtu per hour reciprocating internal combustion generator shall be limited to 132,750 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (i) The owner or operator shall not process emulsified or cutback asphalt at this source unless proper approval has been obtained from IDEM, OAQ.

This operation is approved in all areas of Indiana except in severe nonattainment areas for ozone and except in Lake, Porter, Clark, and Floyd Counties. Therefore, these limits will render the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset), not applicable.

**326 IAC 6-4 (Fugitive Dust Emissions Limitations)**

This rule requires the source 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).

**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, for any new source which has not received all the necessary preconstruction approvals before December 13, 1985, a fugitive dust control plan must be submitted, reviewed and approved. The fugitive dust control plan for this source includes the following:

- (a) The frequency of application of water and/or chemical dust suppressants shall be on an "As Needed Basis", which will be sufficient to prevent fugitive dust from crossing the property lines.
- (b) Identification of fugitive emission processes and proposed fugitive dust control methods:
  - (1) Partially paved roads and parking areas are controlled by flushing with water;
  - (2) Unpaved roads and yard areas are controlled by treatment with water;
  - (3) Aggregate storage piles are controlled by treatment with water;
  - (4) Aggregate dryer/mixing drum controls dust with a 99.9% control efficiency;
- (c) Unpaved/Paved Road Vehicle Mix: (approximately 85% vehicular traffic will be dump-trucks having a 20 ton payload capacity);
- (d) Type and Quantity of Material Stored: Aggregate will consist of sand, gravel, and crushed stone and will be handled at the maximum rate of 505 tons/hr;
- (e) Equipment: Front-end loaders are used to maintain roads, yards, and storage piles;
- (f) Dust Suppressant Material: Water is primary dust suppressant. Water has an estimated 90% control efficiency. Calcium chloride or other approved chemical dust inhibitor may be added to water on an as needed basis to further reduce emissions of fugitive dust. Such chemical dust suppressants are mixed and applied as recommended by the product manufacturer;
- (g) Equipment Maintenance Plan: The front-end loaders are serviced/maintained regularly and the baghouse will be checked daily and on an annual basis.

**State Rule Applicability - Individual Facilities**

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

- (a) Particulate from the permanent crushing operation shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

$$E = 55.0 * (200^{0.11}) - 40 = 58.51 \text{ lbs/hr}$$

Based on the emission calculations (see Appendix A.2, Page 2 of 6), the controlled potential PM emissions of 7.36 lbs/hr from the permanent crushing operation are less than the allowable emissions of 58.51 lbs/hr when using a process weight rate of 400,000 pounds per hour. Therefore, the source is able to comply with the PM emission limit by utilizing wet suppression control methods.

- (b) The aggregate mixing and drying operations are not subject to the requirements of 326 IAC 6-3-2. This rule does not apply if the limitation established in the rule is less stringent than applicable limitations in 326 IAC 12. Since the applicable PM emission limits established by 326 IAC 12, 40 CFR 60, Subpart I (0.04 grains per dry standard cubic foot) and 326 IAC 6.5-1-2(a) (0.03 grains per dry standard cubic foot), are lower than the PM limit that would be established by 326 IAC 6-3-2, the more stringent limit applies and the limit pursuant to 326 IAC 6-3-2 does not apply.

#### 326 IAC 6.5-1-2 (Particulate Limitations)

- (a) The particulate matter emissions from the aggregate mixing and drying operations are subject to the requirements of 326 IAC 6.5-1-2(a) (Particulate matter limitations except Lake County) because this source could relocate to one of the counties listed in 326 IAC 6.5-1-1(a) (except Clark County) and potential particulate matter (PM) emissions exceed 100 tons per year. Pursuant to 326 IAC 6.5-1-2(a), PM emissions from the aggregate mixing and drying operations are limited to 0.03 grains per dry standard cubic foot (gr/dscf). This limitation is more stringent than the additional applicable requirement of 0.04 grains per dry standard cubic foot pursuant to 326 IAC 12 (New Source Performance Standards) and 40 CFR 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities). Therefore, compliance with 326 IAC 6.5-1-2(a) will satisfy the grain loading limit of 0.04 gr/dscf pursuant to 326 IAC 12 and 40 CFR 60.90 to 60.93, Subpart I. The source is able to comply with this rule by using a multi-clone and/or baghouses to limit particulate matter emissions to less than 0.03 gr/dscf (see Appendix A, page 8 of 8, for detailed calculations) when operating in Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties. This source shall not re-locate to Lake, Porter, Floyd or Clark Counties.
- (b) The particulate matter emissions from the permanent crushing operation, is not subject to the requirements of 326 IAC 6.5-1-2(a) (Particulate matter limitations except Lake County) (formerly 326 IAC 6-1-2) because the crushing operation is located at the stationary plant and cannot relocate to any of the counties listed in 326 IAC 6.5-1-1(a).

#### 326 IAC 8-5 (Miscellaneous Operations)

This source, constructed after January 1, 1980 is not subject to the requirements of 326 IAC 8-5 because this source does not have operations as specified in 326 IAC 8-5-2 through 326 IAC 8-5-5.

#### 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

On and after October 1, 1995, this rule applies to stationary vessels used to store volatile organic liquid (VOL) that are located in Clark, Floyd, Lake, or Porter County. This source cannot relocate to Lake, Porter, Clark, or Floyd Counties. Therefore, the requirements of 326 IAC 8-9-2(4), are not applicable to this source.

#### 326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

This source is not permitted to relocate in Clark or Floyd Counties; therefore, the requirements of 326 IAC 10-1 are not applicable.

### 326 IAC 10-3 (Nitrogen Oxides Reduction Program for Specific Source Categories)

The requirements of 326 IAC 10-3 are applicable to Portland cement kilns with process weight rates greater than or equal to specific values. This source is not subject to the requirements of 326 IAC 10-3 because this source does not operate a Portland cement kiln.

### 326 IAC 7 (Sulfur Dioxide Rules)

The potential to emit of SO<sub>2</sub> from the aggregate dryer burners are each greater than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 7-1.1 are applicable.

- (a) When operating on No. 2 fuel oil, the sulfur dioxide emissions shall be limited to five-tenths (0.5) pounds per million British thermal units. Compliance with this limitation shall be accomplished by limiting the weight percent sulfur in the No. 2 fuel oil to no more than four-tenths of a percent (0.4%).
- (b) When operating on re-refined (waste) oil, the sulfur dioxide emissions shall be limited to one and six-tenths (1.6) pounds per million British thermal units. Compliance with this limitation shall be accomplished by limiting the weight percent sulfur in the re-refined (waste) oil to no more than one and one half of a percent (1.5%).

Note: The source is able to comply with this limit by utilizing waste oil with a maximum sulfur content by weight of 0.5%, for the aggregate dryer burners.

The 1.0 MMBtu/hr and 1.9 MMBtu/hr hot oil heaters, and the 8.752 MMBtu/hr No. 2 fuel oil-fired generator are not subject to the requirements of this rule because potential SO<sub>2</sub> emissions from each unit is less than 25 tons per year.

### 326 IAC 7-2-1 (Sulfur Dioxide Reporting Requirements)

This source is subject to 326 IAC 7-2-1 (Reporting Requirements). This rule requires the source to submit to the Office of Air Quality, upon request, records of sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average.

### 326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

This source is not subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of greater than or equal to 25 tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). The source does not have any facilities with limited VOC emissions greater than 25 tons per year; therefore, it is not subject to the requirements of this rule.

### 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

The storage tanks at this source are not subject to 326 IAC 8-4-3 because the tanks have storage capacities less than 39,000 gallons each.

## Testing Requirements

This source is subject to 40 CFR 60, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities), and shall comply with the particulate matter (PM) and opacity compliance testing requirements of the rule. The PM test for 40 CFR 60, Subpart I also will be used to demonstrate compliance with 326 IAC 6.5-1-2. IDEM, OAQ also requires PM-10 testing to demonstrate FESOP compliance. This test shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

## 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 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 asphalt drum mixers and dryers have applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of the aggregate dryers/mixers stack exhausts shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (f) The Permittee shall record the pressure drop across the baghouses used in conjunction with the two (2) aggregate dryers and two (2) drum mixers, at least daily when the process is in operation, when venting to the atmosphere. When for any one reading, the pressure drop across either baghouse is outside the normal range of 2.0 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 or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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.

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

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

These monitoring conditions are necessary because the baghouses for the aggregate drum mixers and dryers must operate properly to ensure compliance with 40 CFR Part 60, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities), 326 IAC 6.5-1-2 (Particulate Emissions Limitations), and 326 IAC 2-8 (FESOP).

The permanent crushing operation has applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of the permanent crushing operation and associated components exhaust for evidence of holes or erosions shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

These monitoring conditions are necessary because the permanent crushing operation must operate properly to ensure compliance with 326 IAC 12 (40 CFR 60, Subpart OOO), 326 IAC 6-3-2 (Particulate Matter Emission Limitations for Manufacturing Processes), and 326 IAC 2-8 (FESOP).

### Changes Proposed

The changes listed below have been made to the FESOP Permit (F139-18283-05243). Deleted language appears as ~~struck through~~ and new language appears in **bold**:

1. Permit Condition A.2 (Part 70 Source Definition) has been added to the permit. All subsequent permit conditions have been renumbered accordingly.

#### **A.2 Part 70 Source Definition [326 IAC 2-8-1][326 IAC 2-7-1(22)]**

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**This portable drum mix asphalt concrete production and stationary crushed stone processing source consists of three (3) plants:**

- (a) **Plant 1 (Valley Asphalt Corporation - Portable Plant #17) is currently located in Ohio;**
- (b) **Plant 2 (Rush County Stone Company) is located at 5556 West SR 244, Milroy, IN 46156; and**
- (c) **Plant 3 (Valley Asphalt Corporation - Portable Plant #7) will be located at 5814 West SR 244, Milroy, IN 46156.**

**IDEM, OAQ has determined that this portable drum mix asphalt concrete production and crushed stone processing source meet the definition of a single major source. The major source is composed of Plant 1 (Valley Asphalt Corporation - Portable Plant #17), Plant 2 (Rush County Stone Company) and Plant 3 (Valley Asphalt Corporation - Portable Plant #7). Plants 1 and 2 will both be located at 5556 West State Road 244 in Milroy. Plant 3 will be located at 5814 West State Road 244, less than half a mile away. Plant 2 will provide 50% or more of its output of aggregate to plants 1 and 3. All three plants are owned by Valley Asphalt Corporation.**

**326 IAC 2-7-1(22) sets out the definition of the term “major source”. In order for these three sources to be considered one major source, they must meet all of the following criteria:**

- (2) the sources must be under common ownership or control;**
- (4) the sources must have the same two digit Standard Industrial Classification (SIC) Code or one must serve as a support facility for the others; and,**
- (5) the sources must be located on contiguous or adjacent properties.**

**Since all three plants are owned by Valley Asphalt Corporation, there is common ownership. The two asphalt plants have the same two-digit SIC Code. The plant 2 is a support facility to plants 1 and 3. Plant 1 and 2 are located on contiguous property. Plant 3's location is less than half of a mile away on an adjacent property. IDEM, OAQ finds that the three plants meet the criteria of 326 IAC 2-7-1(22) and are one major source.**

2. Permit Condition A.2 (now Condition A.3) has been revised to include the proposed portable plant and the crushing operations from the Rush County Stone Company plant. The liquid asphalt storage tanks have been moved to permit Condition A.3 (now Condition A.4) because these tanks do not have any applicable requirements and emissions from these tanks are insignificant.

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

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

- (a) One (1) **portable** asphalt drum mixer-burner, with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting at one (1) stack;
  - (b) Three (3) **portable** feed conveyors;
  - (c) One (1) **portable** No. 2 distillate fuel oil fired reciprocating internal combustion generator, rated at 8.752 MMBtu per hour, **with a model date prior to April 1, 2006. The generator has not been modified;**
  - ~~(d) Four (4) liquid asphalt storage tanks, identified as AC#1, AC#2, AC#3 and AC#4, respectively, with maximum storage capacities of 25,000 gallons, 21,800 gallons, 10,280 gallons and 10,200 gallons, respectively.~~
  - (d) **One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack; and**
  - (e) **A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations are controlled with a wet/continuous wet suppression system.**
3. The liquid asphalt storage tanks have been moved to permit Condition A.3 (now Condition A.4) because these tanks do not have any applicable requirements and emissions from these tanks are insignificant. Additionally insignificant activities from the proposed portable plant have been added to permit Condition A.3 (now Condition A.4).

**A.3A.4 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]**

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

- (a) One (1) No. 2 distillate fuel oil fired AC hot oil heater, rated at 1.90 MMBtu per hour;
- (b) ~~One (1) dust bin silo;~~ **Four (4) liquid asphalt storage tanks, identified as AC#1, AC#2, AC#3 and AC#4, respectively, with maximum storage capacities of 25,000 gallons, 21,800 gallons, 10,280 gallons and 10,200 gallons, respectively;**
- (c) ~~One (1) Recycled Asphalt Pavement (RAP) feed bin;~~ **One (1) dust bin silo;**
- (d) ~~Aggregate storage piles, with a maximum storage capacity of 30,000 tons.~~ **One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;**
- (e) ~~Paved and unpaved roads and parking lots with public access;~~ **and Aggregate storage piles, with a maximum storage capacity of 30,000 tons;**
- (f) ~~One HMA silo.~~ **Paved and unpaved roads and parking lots with public access; [326 IAC 6-4]**

- (g) One (1) HMA silo;
- (h) One (1) 100 ton storage silo;
- (i) One (1) 80 ton storage silo;
- (j) Four (4) 20 ton aggregate storage bins;
- (k) One (1) 20 ton Recycled Asphalt Pavement (RAP) storage bin;
- (l) One (1) 20,000 gallon recycled No. 4 fuel oil storage tank;
- (m) One (1) 9,000 gallon No. 2 fuel oil storage tank;
- (n) One (1) liquid asphalt cement storage tank with a capacity of 25,000 gallons;
- (o) One (1) liquid asphalt cement storage tank with a capacity of 20,000 gallons; and
- (p) One (1) No. 2 distillate fuel oil fired hot oil heater, rated at 1.00 MMBtu per hour.

**A.4A.5 FESOP Applicability [326 IAC 2-8-2]**

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This portable 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) for a Federally Enforceable State Operating Permit (FESOP).

4. The requirements for Permit No Defense have been included on the cover page of the permit; therefore permit Condition B.1 has not been incorporated into this permit Section. All subsequent permit conditions have been renumbered accordingly.

**SECTION B GENERAL CONDITIONS**

**B.1 Permit No Defense [IC 13]**

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~~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.~~

**B.2B.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.

5. Permit Conditions B.2 and B.3 have been added to the permit because the source has proposed to construct a new portable hot mix asphalt plant.

**B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]**

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Pursuant to 326 IAC 2-1.1-9(5) (Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

**B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4] [326 IAC 2-8]**

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This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and 326 IAC 2-8 when prior to the start of operation, the following requirements are met:

- (a) **The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.**
- (b) **If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.**
- (c) **The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.**

6. Upon further review, IDEM has decided to include the following updates to further address and clarify the permit term and the term of the conditions. This includes the addition of the condition: Term of Conditions [326 IAC 2-1.1-9.5] (Condition B.5) and changes to the following conditions: Permit Term (Condition B.4), Prior Permits Superseded (Condition B.15), Termination of Right to Operate (Condition B.16 which was formerly permit Condition B.5), and Permit Renewal (Condition B.19). Please note that some conditions have been rearranged in this permit revision.

**B.3B.4 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, **F139-18283-05243**, 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.
- (b) **If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.**

**B.5 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.4B.6 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 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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

**B.6B.7 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.7B.8 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.8B.9 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 the "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.9B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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

- 7. A statement was added to permit Condition B.10 (now Condition B.11) in order to clarify that the certification form may cover more than one document that is submitted.

**B.10B.11 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).
- 8. The submission date of the Annual Compliance Certification was revised to July 1<sup>st</sup> of each year instead of April 15<sup>th</sup> of each year. Additionally, IDEM's address has been updated throughout the permit.

**B.11B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through 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 ~~April 15~~ **July 1** of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6045  
Indianapolis, Indiana ~~46206-6045~~ **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 the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

9. IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Section B - Preventive Maintenance, and has amended the Section B – Emergency Provisions condition as follows. Additionally, IDEM's phone number and address has been updated throughout the permit.

**B.12B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- ~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~
- (eb) 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 ~~PMP~~**PMPs** ~~does~~**do** not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (ec) 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.13B.14** Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes 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 No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674**0178** (ask for Compliance Section)  
Facsimile No.: 317-233-5967**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, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~ **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 the "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.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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- (a) All terms and conditions of permits established prior to F139-18283-05243 and issued pursuant to permitting programs approved into the state implementation plan have been either:

- (1) incorporated as originally stated,
- (2) revised, or
- (3) deleted.

- (b) All previous registrations and permits are superseded by this permit.

**B.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]**

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

**B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), 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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015 **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 need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "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.15B.18** Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP 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 the "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.16B.19** 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 the "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, P.O. Box 6015  
Indianapolis, IN ~~46206-6015~~ **46204-2251**

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (B) 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.
  - (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
  - (c) **Right to Operate After Application for Renewal [326 IAC 2-8-9]**  
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 needed to process the application.
10. Upon further review, IDEM has decided to remove (d) concerning nonroad engines from Condition B.17 (now Condition B.20) Permit Amendment or Revision. 40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new.

**B.17B.20** 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, P.O. Box 6015  
Indianapolis, IN 46206-6015 **46204-2251**  
  
Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
  - (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
  - ~~(d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.~~
11. A statement concerning backup fuel switches has been added to B.18 (now Condition B.21) Operational Flexibility.

**B.18B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]**

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

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

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~ **46204-2251**

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

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

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

12. Permit Condition B.19 has been replaced by a more appropriately titled condition (Condition B.22-Source Modification Requirement).

~~B.19 Permit Revision Requirement [326 IAC 2-8-11.1]~~

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

**B.22 Source Modification Requirement [326 IAC 2-8-11.1]**

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

~~B.20~~**B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC13-30-3-1] [IC13-17-3-2]**

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

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

~~B.21~~**B.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

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

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015 **46204-2251**

The application which shall be submitted by the Permittee does require the certification by the "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)]

13. The section's name that collects operating fees has changed and has been updated in Condition B.22 (now Condition B.25) Annual Fee Payment. The most current name is the Billing, Licensing, and Training Section. Additionally the phone number for the Billing, Licensing, and Training Section has been updated.

**B.22B.25 Annual Fee Payment** [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

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- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 ~~4230~~ (ask for OAQ, ~~IM & Billing~~ **Billing, Licensing, and Training Section**), to determine the appropriate permit fee.

**B.23B.26 Advanced Source Modification Approval** [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

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

14. Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the condition has been added to the permit.

**B.27 Credible Evidence** [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source
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15. The 326 IAC 6-3 revisions that became effective on June 12, 2002 were approved into the State Implementation Plan on September 23, 2005. These rules replace the previous version of 326 IAC 6-3 (Process Operations) that had been part of the SIP; therefore, the requirements of the previous version of 326 IAC 6-3-2 are no longer applicable to this source. Condition C.1 has been revised to remove (a) which contained these requirements. Also, "Pounds" and "Hour" in the header were capitalized and the reference to 40 CFR 52, Subpart P in the header was removed.

Emissions 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~~**Pounds** per hour~~Hour~~ [40 CFR 52 Subpart P][326 IAC 6-3-2]

~~(a) Pursuant to 40 CFR 52 Subpart P particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.~~

~~(b) 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.~~

...

16. Permit Condition C.3 was revised to include opacity requirements for various counties since the portable hot mix asphalt plants could relocate to other counties, except severe nonattainment areas for ozone or Lake, Porter, Clark, or Floyd Counties.

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 thirty percent (30%) 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.~~

**Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), when the source is located in any of the following areas:**

**(1) Dearborn County, Lawrenceburg Township.**

**(2) Dubois County, Bainbridge Township.**

- (3) Marion County, except the area of Washington Township east of Fall Creek and the area of Franklin Township south of Thompson Road and east of Five Points Road.**
- (4) St. Joseph County, the area north of Kern Road and east of Pine Road.**
- (5) Vanderburgh County, the area included in the city of Evansville and Pigeon Township.**
- (6) Vigo County, the area within a five-tenths (0.5) kilometer radius circle centered at UTM Coordinates Zone 16 East four hundred sixty-four and fifty-two hundredths (464.52) kilometers North four thousand three hundred sixty-nine and twenty-one hundredths (4,369.21) kilometers, unless otherwise stated in the permit.**

**opacity shall meet the following, unless otherwise stated in the permit:**

- (a) Opacity shall not exceed an average of thirty percent (30%) 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.**

**When the source is located in an area of Indiana not listed above (1 through 6), opacity shall meet the following, unless otherwise stated in the 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.**

...

17. Permit Conditions D.1.11 and D.2.3 already have requirements for operating controls; therefore permit Condition C.8 has not been incorporated into the permit.

~~C.8 Operation of Equipment [326 IAC 2-8-5(a)(4)]~~

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~~Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.~~

~~C.9C.8 Stack Height [326 IAC 1-7]~~

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~~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.~~

18. Permit Condition C.10 (g) (now Condition C.9 (g)) has been revised to remove the last sentence because the requirement to use an Indiana Accredited Asbestos inspector is now federally enforceable.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~ **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 the "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. ~~The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.~~

19. Permit Condition C.11 (now Condition C.10) was revised to include testing language for the proposed portable asphalt plant.

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

~~C.11~~**C.10** Performance Testing [326 IAC 3-6]

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- (a) **Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval.** 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, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~ **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 the "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 the "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.12~~**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.13~~**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. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana ~~46206-6015~~**46204-2251**

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

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

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

~~C.14~~**C.13** Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

---

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

20. IDEM realizes that the specifications in permit Condition C.15 (now Condition C.14) can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition.

~~C.15~~**C.14** ~~Pressure Gauge and Other~~ 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) ~~Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed~~**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 normal maximum reading for the normal range shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (+2%) of full scale reading.**
- (b) The Permittee may request ~~that~~ the IDEM, OAQ approve the use of ~~a pressure gauge or other~~ an instrument that does not meet the above specifications provided the Permittee can demonstrate ~~that~~ an alternative ~~pressure gauge or other~~ instrument specification will adequately ensure compliance with permit conditions requiring the measurement of ~~pressure drop or other~~ **the** parameters.

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

~~C.16~~**C.15** Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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, P.O. Box 6015  
Indianapolis, Indiana 46206-6015 **46204-2251**  
  
within 180 days from the date on which this source commences operation).  
  
The ERP does require the certification by the "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.17~~**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.

- 21. IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. The Section D conditions that refer to this condition have been revised to reflect the new condition title, and the following changes have been made to the Section C condition:

~~C.18~~ Compliance Response Plan - Preparation, Implementation, Records, and Reports  
[326 IAC 2-8-4] [326 IAC 2-8-5]

- ~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:~~

- ~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.~~
  - ~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~
- ~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- ~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~
  - ~~(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
  - ~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.~~
  - ~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~
- ~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~
- ~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
  - ~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.~~
  - ~~(3) An automatic measurement was taken when the process was not operating.~~
  - ~~(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.~~
- ~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.~~

- ~~(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~
- ~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~

**C.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]**

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- (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.19C.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 and 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 the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

**C.20C.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.

22. Clarification has been added to (e) of permit Condition C.21 (now Condition C.20) General Reporting Requirements.

**C.21C.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 the "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 Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015 **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 the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
  - (e) The first report covered the period commencing on the date of issuance of the original FESOP and ~~ended~~**ending** on the last day of the reporting period. ~~All subsequent reporting periods shall be based on calendar years.~~**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.**
23. The Counties that the portable plants can relocate to has been revised. Also, the list of local control agencies that the source must notify if they relocate has been revised.

#### Portable Source Requirement

##### G.22C.21 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) ~~This permit is approved for operation in all areas of Indiana except in the counties listed under 326 IAC 6-1-2 (Clark, Dearborn, Dubois, Howard, Lake, Marion, St. Joseph, Vanderburgh, Vigo and Wayne) and severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any counties listed under 326 IAC 6-1-2 and severe nonattainment area, the Permittee must submit a request and obtain a permit modification.~~**This permit is approved for operation in areas of Indiana except in severe nonattainment areas for ozone. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.**
- (b) **This source shall not re-locate to Lake, Porter, Floyd or Clark Counties.**
- (c) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
  - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
  - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (bd) A "Relocation Site Approval" letter shall be obtained prior to relocating.

- (ee) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
- (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - ~~(3) City of Gary - (Gary Department of Environmental Affairs)~~
  - ~~(4) City of Hammond - (Hammond Department of Environmental Management)~~
  - (53) Marion County - (Indianapolis Office of Environmental Services)
  - ~~(6) St. Joseph County - (St. Joseph County Health Department)~~
  - (74) Vigo County - (Vigo County Air Pollution Control)
- (df) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

#### Stratospheric Ozone Protection

##### C.23C.22 Compliance with [40 CFR 82 and 326 IAC 22-1]

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.

24. The facility descriptions in Section D.1 have been revised.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:	
(a)	One (1) <b>portable</b> asphalt drum mixer <del>burner</del> , with a maximum capacity of 325 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 93 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting at one (1) stack;
(b)	Three (3) <b>portable</b> feed conveyors;
(c)	One (1) <b>portable</b> No. 2 distillate fuel oil fired reciprocating internal combustion generator, rated at 8.752 MMBtu per hour, <b>with a model date prior to April 1, 2006. The generator has not been modified;</b>
(d)	<b>One (1) portable asphalt drum mixer, with a maximum capacity of 180 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired dryer burner with a maximum rated capacity of 120 million (MM) British thermal units (Btu) per hour, using re-refined waste oil as a back-up fuel using one (1) multi-clone and one (1) baghouse for air pollution control, exhausting to one (1) stack.</b>
(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)]

25. Applicable requirements related to 40 CFR 60, Subpart A and 40 CFR 60, Subpart I have been moved to the end of permit Section D.1.

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

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

26. Since the portable plants could relocate to any of the counties listed in 326 IAC 6.5-1-2(a) except Clark County, the requirements of 326 IAC 6.5 have been included in the permit for the aggregate dryers and drum mixers.

**D.1.1 Particulate Matter (PM) [326 IAC 6.5-1-2]**

**Pursuant to 326 IAC 6.5-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the two (2) aggregate dryers and two (2) drum mixers shall each be limited to 0.03 grains per dry standard cubic foot (gr/dscf) for particulate matter.**

27. The Prevention of Significant Deterioration minor limit for particulates under permit Condition D.1.2 has been revised because the requirements related to 40 CFR 60, Subpart I have been moved to the end of permit Section D.1.

~~D.1.2 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.90, Subpart I][326 IAC 2-2]~~

~~Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 12.86 pounds per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM emissions from the mixing and drying operations to 56.34 tons per year for a source-wide total potential to emit of less than 250 tons per year. Therefore, this limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.~~

**D.1.2 PSD Minor Limit [326 IAC 2-2]**

**Particulate matter emissions from the two (2) aggregate dryers and two (2) drum mixers combined shall not exceed 0.133 pounds of PM per ton of asphalt produced.**

**This limits total source-wide PM emissions to less than 250 tons per year. Therefore, compliance with this limit will render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.**

28. The PM-10 PSD minor limit in permit Condition D.1.3 has been revised to ensure that source-wide emissions of PM-10 are limited to less than 100 tons per year. Also, the PM-10 limit has been revised in terms of a pound per ton limit instead of a pound per hour limit.

~~D.1.3 Particulate Matter 10 Microns (PM-10) [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-3]~~

~~Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the aggregate mixing and drying operation shall not exceed 0.055 pound of PM-10 per ton of asphalt mix. This is equivalent to a PM-10 emission limit of 17.78 pounds per hour, including both filterable and condensable fractions. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 77.9 tons per year for a source-wide total potential to emit of less than 100 tons per year. Therefore, compliance with this limit will satisfy 326 IAC 2-8-4, and will render the Part 70 rules (326 IAC 2-7) not applicable. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.~~

**D.1.3 Particulate Matter Less Than 10 Microns In Diameter (PM-10) [326 IAC 2-8-4][326 IAC 2-2]**

**Pursuant to 326 IAC 2-8-4, particulate matter less than 10 microns in diameter emissions from the two (2) aggregate dryers and two (2) drum mixers combined shall not exceed 0.109 pounds of PM-10 per ton of asphalt produced. This limits the entire source-wide emissions of PM-10 to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP). Therefore, the Part 70 rules (326 IAC 2-7) do not apply. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.**

29. Applicable requirements related to 40 CFR 60, Subpart I have been moved to the end of permit Section D.1.

~~D.1.4 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]~~

~~Pursuant to 326 IAC 12, (40 CFR Part 60.92, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the mixing and drying operations shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater.~~

30. The language in permit Condition D.1.5 (now Condition D.1.4) has been revised.

~~D.1.5 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1][326 IAC 7-2-1]~~

- ~~(a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 93 million Btu per hour burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.~~
- ~~(b) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 93 million Btu per hour burner for the aggregate dryer shall be limited to 1.6 pounds per million Btu heat input or a sulfur content of less than or equal to 1.4 percent when using re-refined waste oil. The source has accepted a sulfur content limit of 0.65 percent for re-refined waste oil.~~
- ~~(c) Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.~~

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

- (a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations) the following rules apply:**
  - (1) Sulfur dioxide emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.4 percent (%) when using No. 2 distillate fuel oil; and**
  - (2) Sulfur dioxide emissions from the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 1.6 pounds per million Btu heat input or a sulfur content of less than or equal to 1.5 percent (%) when using residual or waste oil.**
- (b) Pursuant to 326 IAC 7-2-1, compliance with 326 IAC 7-2-1 shall be demonstrated on a calendar month average.**

31. Fuel usage and sulfur content limitations for waste oil and waste oil equivalents have been added to permit Condition D.1.5. This condition replaces the language in permit Condition D.1.6.

**D.1.5 Sulfur Dioxide (SO<sub>2</sub>) Emissions [326 IAC 2-8-4][326 IAC 2-2]**

**Pursuant to 326 IAC 2-8-4(1), the following limits shall apply:**

- (a) The sulfur content of the waste oil used in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall not exceed 0.5%;**
- (b) The combined usage of waste oil and waste oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 2,440,930 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month;**
- (c) For purposes of determining compliance, every 1,000 gallons of No. 2 fuel oil burned in the aggregate dryer burners shall be equivalent to 854 gallons of waste oil based on SO<sub>2</sub> emissions and a maximum No. 2 fuel oil sulfur content of 0.4%.**

- (d) **The sulfur content of the No. 2 fuel oil used in the 8.752 MMBtu per hour reciprocating internal combustion generator shall not exceed 0.4%; and**
- (e) **The usage of No. 2 fuel oil with a sulfur content of 0.4% in the 8.752 MMBtu per hour reciprocating internal combustion generator shall be limited to 132,750 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.**

**This limits the entire source-wide emissions of SO<sub>2</sub> to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 (PSD) will not apply.**

~~D.1.6 Re-refined Waste Oil and Equivalent Fuel Usage and Distillate Fuel Oil Usage [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-3]~~

~~Pursuant to 326 IAC 2-8-4(1), the following limits shall apply:~~

- ~~(a) The sulfur content of the re-refined waste oil used in the 93 MMBtu per hour burner for the aggregate dryer shall not exceed 0.65 percent.~~
- ~~(b) The sulfur content of the No. 2 distillate fuel oil used in the 8.752 MMBtu per hour reciprocating internal combustion generator shall not exceed 0.5 percent.~~
- ~~(c) The usage of re-refined waste oil with a sulfur content of 0.65% and re-refined waste oil equivalents in the in the 93 MMBtu/hr drum mixer burner shall be limited to 1,904,134 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO<sub>2</sub> and NO<sub>x</sub> emissions are limited below 100 tons per year.~~
- ~~(d) The usage of No. 2 distillate fuel oil with a sulfur content of 0.5% in the 8.752 MMBtu per hour reciprocating internal combustion generator shall be limited to 132,750 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO<sub>2</sub> and NO<sub>x</sub> emissions are limited below 100 tons per year.~~
- ~~(e) For purposes of determining compliance, every 1,000 gallons of No.2 fuel oil burned in the 93 MMBtu per hour burner for the aggregate dryer shall be equivalent to 743 gallons of re-refined waste oil based on SO<sub>2</sub> emissions, such that the total gallons of re-refined waste oil and re-refined waste oil equivalent input does not exceed the limit specified.~~

~~Therefore, the requirements of 326 IAC 2-7 will not apply. This limitation will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.~~

- 32. The requirements of 326 IAC 8-5-2 have not been incorporated into the permit because this source does not use cutback asphalt or asphalt emulsion in any processes.

~~D.1.7 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]~~

~~The Permittee shall require prior approval from OAQ before using cutback asphalt or asphalt emulsion.~~

- 33. In order to preclude applicability of 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (PSD), limitations have been added to the permit to limit emissions of VOCs, NO<sub>x</sub>, and CO each to less than Part 70 major source thresholds.

**D.1.6 Volatile Organic Compounds (VOCs), Nitrogen Oxides (NOx), and Carbon Monoxide (CO) Emissions [326 IAC 2-8-4] [326 IAC 2-2]**

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- (a) Pursuant to 326 IAC 2-8-4(1), the combined usage of No. 2 fuel oil and No. 2 fuel oil equivalents in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 5,695,786 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. The NOx emissions shall be limited to 24.0 pounds of NOx per 1,000 gallons of fuel used. This limit is required to limit source-wide emissions of NOx to less than 100 tons per year.

For purposes of determining compliance, every 1,000 gallons of waste oil burned in the aggregate dryer burners shall be equivalent to 792 gallons of No. 2 fuel oil based on NOx emissions.

This limit along with the fuel usage limit in D.1.5(e), for the reciprocating internal combustion generator, limits the source-wide emissions of NOx to less than 100 tons per year. Therefore the requirements of 326 IAC 2-7 and 326 IAC 2-2 (PSD) will not apply.

- (b) The following limits apply to the drum mixers:

- (i) The annual asphalt produced in the aggregate drum mixers shall be limited to 1,314,000 tons of asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (ii) The CO emissions shall be limited to 0.13 pounds of CO per ton of asphalt produced. The VOC emissions shall be limited to 0.032 pounds of VOC per ton of asphalt produced.

These limits are required to limit the source-wide emissions of VOCs and CO to less than 100 tons per year each. Therefore, the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) are not applicable.

34. In order to ensure that this source remains a minor source of HAPs, limitations on waste oil fuel usage have been added to the permit.

**D.1.7 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]**

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Pursuant to 326 IAC 2-8-4(1), the combined usage of waste oil in the 93 MMBtu per hour burner and the 120 MMBtu per hour burner for the aggregate dryers shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that source-wide HCl emissions are limited to less than 10 tons per year and the source-wide combined HAP emissions are limited to less than 25 tons per year. Therefore the requirements of 326 IAC 2-7 will not apply.

35. Permit Condition D.1.8 has been revised to clarify which facilities require a preventative maintenance plan.

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

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for ~~this facility~~ **the aggregate dryers and drum mixers** and any control devices.

36. Permit Condition D.1.9 has been revised to include testing requirements for the proposed portable plant and the permitted portable plant since neither plant has yet been operated in Indiana. The language for the testing requirements has also been revised.

## Compliance Determination Requirements

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

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- ~~(a) This new asphalt source shall be stack tested within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, in order to demonstrate compliance with Conditions D.1.2, D.1.3 and D.1.4, the Permittee shall perform PM and PM-10 testing utilizing methods as approved by the Commissioner. PM-10 includes filterable and condensable PM-10.~~
- ~~(b) Opacity testing shall be performed within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up utilizing 40 CFR Part 60 Appendix A, Method 9, to demonstrate compliance with the opacity limitation of Condition D.1.5.~~

~~This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.~~

### D.1.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11][40 CFR 60.93] [326 IAC 12][326 IAC 6.5-1-2]

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- (a) **Within 180 days of start-up, in order to demonstrate compliance with Conditions D.1.1, D.1.2, and D.1.18, the Permittee shall perform PM and PM<sub>10</sub> testing for the aggregate dryers and drum mixers stacks utilizing methods as approved by the Commissioner. This test shall be performed within five (5) years of the date of the last valid compliance demonstration. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C - Performance Testing.**
- (b) **Pursuant to 40 CFR 60.93, compliance with the PM standards in 40 CFR 60.92 shall be determined by using Method 5 to determine particulate concentration and Method 9 to determine opacity. When determining the particulate concentration, the sampling time and sampling volume for each run shall be at least 60 minutes and 0.90 dry standard cubic meters (31.8 dry standard cubic feet).**

37. The language in permit Condition D.1.10 has been revised.

### D.1.10 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 five-tenths (0.5) pounds per million British thermal unit heat input when operating on No. 2 distillate oil, and **one and six-tenths (1.6) pounds per million Btu-British thermal unit** heat input when operating on re-refined (waste) oil 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 aggregate dryers using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.
- (c) **In order to demonstrate compliance with Conditions D.1.4 and D.1.5, the Permittee shall demonstrate that the weight percent of sulfur dioxide in the fuels used does not exceed four-tenths of a percent (0.4%) by weight when operating on No. 2 distillate oil, and one half of a percent (0.5%) by weight when operating on reused (waste) oil, using the methods described in (a)(1) and (a)(2) or (b) of this condition.**

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.

38. Permit Condition D.1.11 has been revised to reference Conditions D.1.1, D.1.2, and D.1.18 instead of permit Conditions D.1.2, D.1.3, and D.1.4 as the order of the permit Conditions has changed. This condition has also been revised to include requirements for a failed baghouse.

#### D.1.11 Particulate Matter (PM and PM<sub>10</sub>) Control

- (a) In order to comply with Conditions **D.1.1, D.1.2, ~~D.1.3 and D.1.4~~ and D.1.18**, the ~~baghouse~~**baghouses** for PM and PM<sub>10</sub> particulate control shall be in operation and control emissions **from the aggregate dryers and drum mixers** at all times ~~when that the aggregate mixing and drying~~**dryers and drum mixers** are in operation.
- (b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

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

39. Permit Condition D.1.12 has been revised to indicate that visible emission notations must be performed on a daily basis instead of once per shift. Additionally, the condition has been revised to reference the Section C - Response to Excursions or Exceedances instead of Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports.

#### D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the ~~asphalt drum mixer burner baghouse~~**aggregate dryers/mixers** stack ~~exhaust~~**exhausts** shall be performed once per ~~shift~~**day** during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) ~~The Compliance Response Plan 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.~~ **If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

40. Permit Condition D.1.13 has been revised to indicate that parametric monitoring must be performed on a daily basis instead of once per shift. Additionally, the condition has been revised to reference the Section C - Response to Excursions or Exceedances instead of Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports.

#### D.1.13 Parametric Monitoring

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The Permittee shall record the ~~total static~~ pressure drop across the baghouse used in conjunction with the ~~aggregate mixing and drying operation~~ **two (2) aggregate dryers and two (2) drum mixers**, at least ~~once per shift~~ **daily** when the process is in operation when venting to the atmosphere. When or any one reading, the pressure drop across ~~either the~~ baghouse is outside the normal range of 2.0 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 - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - ~~Compliance Response Plan - Preparation, Implementation, Records, and Reports~~ **Response to Excursions or Exceedances**, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - ~~Pressure Gauge and Other Instruments~~ Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

41. The requirements of permit Condition D.1.14 have not been incorporated into the permit because the source is required to perform daily parametric monitoring.

#### ~~D.1.14 Baghouse Inspections~~

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~~An inspection shall be performed each calendar quarter of all bags controlling the process when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.~~

42. Permit condition D.1.15 (now Condition D.1.14) has been revised to include requirements for single compartment baghouses.

#### D.1.15 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 Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, 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.1.14 Broken or Failed Bag Detection

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

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

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

- 43. Permit Condition D.1.16 (now Condition D.1.15) has been revised to reference the correct conditions and the language for this condition has been revised. The reference to baghouse inspections has been removed from the permit; therefore requirement (e) was not incorporated into this condition.

**D.1.16D.1.15 Record Keeping Requirements**

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- (a) To document compliance with Conditions D.1.5, ~~and D.1.6(a), and D.1.7~~ the Permittee shall maintain records in accordance with (1) through (7) below. **Records maintained for (1) through (7) below shall be complete and sufficient to establish compliance with the SO<sub>2</sub>, NO<sub>x</sub>, and HCl emission limits established in Conditions D.1.5, D.1.6(a), and D.1.7.**
- (1) Calendar dates covered in the compliance determination period;
  - (2) ~~Actual re-refined waste oil and re-refined waste oil equivalent usage in the 93 MMBtu per hour burner for the aggregate dryer per month since last compliance determination period and equivalent SO<sub>2</sub> and NO<sub>x</sub> emissions;~~ **Actual waste oil and waste oil equivalent usage per month for the aggregate dryer burners since last compliance determination period. Actual No. 2 fuel oil and No. 2 fuel oil equivalent usage per month for the aggregate dryer burners since last compliance determination period;**
  - (3) Actual No. 2 distillate fuel oil usage in the reciprocating internal combustion generator per month since last compliance determination period and equivalent SO<sub>2</sub> and NO<sub>x</sub> emissions;
  - (4) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (5) Fuel supplier certifications.
- (6) The name of the fuel supplier; and
- (7) 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.

- (b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in condition ~~D.1.9D.1.10~~. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.
- (c) ~~To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the aggregate dryer/burner baghouse stack exhaust once per shift.~~ **To document compliance with Condition D.1.12, the Permittee shall maintain daily records of visible emission notations of the aggregate dryers/drum mixer stack exhausts or maintain a record of the reason why the visible emission notations were not taken.**
- (d) ~~To document compliance with Condition D.1.13, the Permittee shall maintain records once per shift of the total static pressure drop during normal operation when venting to the atmosphere.~~ **To document compliance with Condition D.1.13, the Permittee shall maintain daily records of the pressure drop.**

- (e) ~~To document compliance with Condition D.1.14, the Permittee shall maintain records of the results of the inspections required under Condition D.1.14 and the dates the vents are redirected.~~ **The Permittee shall maintain records sufficient to verify compliance with Condition D.1.6(b).**
  - (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.
44. Permit Condition D.1.17 (now Condition D.1.16) has been revised to reference Condition D.1.5 and D.1.7 in addition to D.1.6.

~~D.1.17~~**D.1.16 Reporting Requirements**

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A quarterly summary of the information to document compliance with ~~Condition~~**Conditions D.1.5, D.1.6, and D.1.7** shall be submitted to the address 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).

45. Permit Condition D.1.18 has not been incorporated into the permit because the rule has been repealed.

~~D.1.18 Used Oil Requirements [329 IAC 13-8]~~

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~~The waste oil burned in the dryer/mixer burner shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). Pursuant to 329 IAC 13-3-2 (Used Oil Specifications), used oil burned for energy recovery that is classified as off-specification used oil fuel shall comply with the provisions of 329 IAC 13-8 (Used Oil Burners Who Burn Off-specification Used Oil For Energy Recovery), including:~~

- ~~(a) — Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification);~~
- ~~(b) — Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and~~
- ~~(c) — Maintaining records pursuant to 329 IAC 13-8-6 (Tracking).~~

~~The burning of mixtures of used oil and hazardous waste that is regulated under 329 IAC 3.1 is prohibited at this source.~~

46. The requirements of 40 CFR 60, Subpart A and 40 CFR 60, Subpart I have been incorporated into permit Conditions D.1.17 and D.1.18.

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

**D.1.17 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]**

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Pursuant to 40 CFR 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the aggregate dryers, drum mixers, and conveying operations in accordance with the schedule in 40 CFR 60, Subpart A.

**D.1.18 NSPS Requirements [40 CFR Part 60, Subpart I] [ 326 IAC 20-1]**

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Pursuant to 40 CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the aggregate dryers, drum mixers, and conveying operations as specified as follows:

**§ 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.**

**§ 60.91 Definitions.**

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

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

**§ 60.92 Standard for particulate matter.**

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

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

**§ 60.93 Test methods and procedures.**

**(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).**

**(b) The owner or operator shall determine compliance with the particulate matter standards in §60.92 as follows:**

- (1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf).**
- (2) Method 9 and the procedures in §60.11 shall be used to determine opacity.**

47. IDEM has determined that the two portable asphalt plants and the stationary crushed stone plant are one source. As such, the applicable requirements related to the Rush County Stone Company plant have been incorporated into permit Section D.2. This plant was previously issued a Source Specific Operating Agreement (SSOA). The SSOA will be revoked upon issuance of the Significant Permit Revision.

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (e) A stationary crushed stone operation including four (4) crushers, seven (7) screens, and one (1) conveying operation. Particulate matter from the crushing, screening, and conveying operations are controlled with a wet/continuous wet suppression system.

(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 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the permanent crushing operation shall not exceed the following pounds per hour limit when operating at the following process weight rates in tons per hour.

Facility	Process Weight Rate (tons per hour)	Allowable PM emissions (pounds per hour)
Permanent Crushing Operation	200	58.51

The pounds per hour limitations were calculated using the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour;  
and P = process weight rate in tons per hour

#### D.2.2 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 the permanent crushing operation and any control devices.

### Compliance Determination Requirements

#### D.2.3 PM Control

In order to comply with Condition D.2.1, the wet suppression control methods for PM shall be in operation and control emissions from the permanent crushing operation at all times that the permanent crushing operation is in operation.

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

### **D.2.4 Visible Emissions Notations**

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- (a) **Visible emission notations of the permanent crushing operation and associated components exhaust for evidence of holes or erosions shall be performed once per day during normal daylight operations, when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.**
- (b) **For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.**
- (c) **In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.**
- (d) **A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.**
- (e) **If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

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

### **D.2.5 Record Keeping Requirements**

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- (a) **To document compliance with Condition D.2.4, the Permittee shall maintain records of visible emission notations of the permanent crushing operation and associated components exhaust once per day or maintain a record of the reason why the visible emission notations were not taken.**
- (b) **All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**

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

### **D.2.6 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 permanent crushing operation, 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,  
Indianapolis, Indiana 46204-2251**

#### **D.2.7 NSPS Requirements [40 CFR Part 60, Subpart OOO]**

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Pursuant to 40 CFR Part 60, Subpart OOO, the Permittee shall comply with the provisions of 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing for the permanent crushing operation as specified as follows:

##### **§ 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.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

...

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, the new facility is exempt from the provisions of §§60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in §60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§60.672, 60.674 and 60.675.

(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 OOO**

Subpart A reference	Applies to Subpart OOO	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..... notice	Yes.....	Except in (d), after 30 days 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.....	

**§ 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) Fluorospars.
- (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.

§ 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.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

...

(h) 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, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

**§ 60.673 Reconstruction.**

**(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the “fixed capital cost of the new components” or the “fixed capital cost that would be required to construct a comparable new facility” under §60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.**

**(b) Under §60.15, the “fixed capital cost of the new components” includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.**

**§ 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.**

**(b) The owner or operator shall determine compliance with the particulate matter standards in §60.672(a) as follows:**

...

**(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.**

...

**(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.**

...

**(h) Initial Method 9 performance tests under §60.11 of this part and §60.675 of this subpart are not required for:**

**(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.**

**(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.**

#### **§ 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).

(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to §60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of §60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).

...

(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.

#### Compliance Determination Requirement

##### **D.2.8 NSPS Compliance Provisions [326 IAC 12] [40 CFR 60, Subpart OOO]**

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**Compliance with the opacity emission limitations in Condition D.2.7 shall be determined by the methods and procedures specified in 40 CFR 60.675.**

48. The FESOP Quarterly Report forms at the end of the permit have been revised to include the new fuel usage limitations. Additional FESOP Quarterly Report forms have been added to the end of the permit.

## **Conclusion**

The construction and operation of the proposed portable drum mix asphalt production plant, operation of the portable drum mix plant, and operation of the crushed stone processing plant shall be subject to the conditions of the attached proposed Significant Permit Revision No.: 139-24058-05243.

Company Name:  
Initial Plant Location:  
County:  
Permit Reviewer:

Valley Asphalt Corporation  
5556 West SR 244, Milroy, IN 46156  
Rush  
Tanya White/EVP

@ 0.40 % chlorine, and  
@ 0.50 % sulfur, and  
@ 1.00 % ash, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.11 - Waste Oil Combustion, Tables 1.11-1, 1.11-2, 1.11-3, and 1.11-4.

Criteria Pollutant:  $\frac{213 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} \times 2,000 \text{ lb/ton}}$  \* Ef (lb/1,000 gal) = (ton/yr)

<b>P M:</b>	64.0 lb/1000 gal =	<b>426.49 ton/yr</b>
<b>P M-10:</b>	51.0 lb/1000 gal =	<b>339.86 ton/yr</b>
<b>S O<sub>2</sub>:</b>	73.5 lb/1000 gal =	<b>489.79 ton/yr</b>
<b>N O<sub>x</sub>:</b>	19.0 lb/1000 gal =	<b>126.61 ton/yr</b>
<b>V O C:</b>	1.00 lb/1000 gal =	<b>6.66 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>33.32 ton/yr</b>
<b>HCl:</b>	26.4 lb/1000 gal =	<b>175.93 ton/yr</b>

The following calculations determine the amount of emissions created by the combustion of No. 2 distillate fuel oil @ 0.40 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-2, and 1.3-5.

Criteria Pollutant:  $\frac{213 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} \times 2,000 \text{ lb/ton}}$  \* Ef (lb/1,000 gal) = (ton/yr)

<b>P M:</b>	2.0 lb/1000 gal =	<b>13.33 ton/yr</b>
<b>P M-10:</b>	3.3 lb/1000 gal =	<b>21.99 ton/yr</b>
<b>S O<sub>2</sub>:</b>	62.8 lb/1000 gal =	<b>418.49 ton/yr</b>
<b>N O<sub>x</sub>:</b>	24.0 lb/1000 gal =	<b>159.93 ton/yr</b>
<b>V O C:</b>	0.20 lb/1000 gal =	<b>1.33 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>33.32 ton/yr</b>

The maximum potential emissions from the aggregate dryer burner due to fuel combustion are the following:

Criteria Pollutant:		Worst Case Fuel
<b>P M:</b>	<b>426.49 ton/yr</b>	Re-refined Waste Oil
<b>P M-10:</b>	<b>339.86 ton/yr</b>	Re-refined Waste Oil
<b>S O<sub>2</sub>:</b>	<b>489.79 ton/yr</b>	Re-refined Waste Oil
<b>N O<sub>x</sub>:</b>	<b>159.93 ton/yr</b>	Fuel Oil No. 2
<b>V O C:</b>	<b>6.66 ton/yr</b>	Re-refined Waste Oil
<b>C O:</b>	<b>33.32 ton/yr</b>	Re-refined Waste Oil/Fuel Oil No. 2
<b>HCl:</b>	<b>175.93 ton/yr</b>	Re-refined Waste Oil

**\*\*Insignificant Combustion Sources\*\***

**\*\*hot oil heaters\*\***

**Two Hot Oil Heaters- 1.9 MMBtu/hr and 1.0 MMBtu/hr**

The following calculations determine the amount of emissions created by #2 distillate fuel oil @ 0.5% sulfur, from the hot oil heaters based on 8,760 hours of operation and US EPA's AP-42, Ch. 1.3, Tables 1.3-1, 1.3-2, 1.3-3.

Criteria Pollutant:  $\frac{2.9 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr}}{140,000 \text{ Btu/1000 gal} \times 2,000 \text{ lb/ton}}$  \* Ef (lb/1000 gal) = (ton/yr)

<b>P M:</b>	2.00 lb/1000 gal =	<b>0.18 ton/yr</b>
<b>P M-10:</b>	3.30 lb/1000 gal =	<b>0.30 ton/yr</b>
<b>S O<sub>2</sub>:</b>	71.00 lb/1000 gal =	<b>6.44 ton/yr</b>
<b>N O<sub>x</sub>:</b>	20.00 lb/1000 gal =	<b>1.81 ton/yr</b>
<b>V O C:</b>	0.34 lb/1000 gal =	<b>0.03 ton/yr</b>
<b>C O:</b>	5.00 lb/1000 gal =	<b>0.45 ton/yr</b>

**Internal Combustion Engine**

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.4 % sulfur, based on a fuel usage limitation of 132,750 gallons per year and US EPA's AP-42, 5th Edition, Section 3.4 - Large Stationary Diesel Engines, Table 3.4-1.

Criteria Pollutant:  $\frac{8.752 \text{ MMBtu/hr} \times 8,760 \text{ hr/yr} \times \text{Ef (lb/MMBtu)}}{2,000 \text{ lb/ton}}$  X  $\frac{132,750 \text{ gallons/yr limited}}{547,625.1 \text{ gallons/yr maximum}}$

<b>P M:</b>	0.10 lb/MMBtu =	<b>0.93 ton/yr</b>
<b>P M-10:</b>	0.06 lb/MMBtu =	<b>0.53 ton/yr</b>
<b>S O<sub>2</sub>:</b>	0.40 lb/MMBtu =	<b>3.75 ton/yr</b>
<b>N O<sub>x</sub>:</b>	3.20 lb/MMBtu =	<b>29.74 ton/yr</b>
<b>V O C:</b>	0.09 lb/MMBtu =	<b>0.84 ton/yr</b>
<b>C O:</b>	0.85 lb/MMBtu =	<b>7.90 ton/yr</b>

The potential emissions from the hot oil heaters and generator due to fuel combustion are the following:

<b>Criteria Pollutant:</b>	<b>P M:</b>	<b>1.11 ton/yr</b>
	<b>P M-10:</b>	<b>0.83 ton/yr</b>
	<b>S O<sub>2</sub>:</b>	<b>10.20 ton/yr</b>
	<b>N O<sub>x</sub>:</b>	<b>31.55 ton/yr</b>
	<b>V O C:</b>	<b>0.87 ton/yr</b>
	<b>C O:</b>	<b>8.35 ton/yr</b>

**\*\* aggregate drying: drum-mix plant \*\***

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-3, 11.1-7, and 11.1-8 for a drum mix dryer which has the capability of combusting either fuel oil or re-refined waste oil:

Pollutant:  $\frac{\text{Ef} \times \text{lb/ton} \times 150 \text{ ton/hr} \times 8,760 \text{ hr/yr}}{2,000 \text{ lb/ton}}$

<b>Criteria Pollutant:</b>	<b>P M:</b>	<b>28</b>	lb/ton =	<b>18,396.00 ton/yr</b>
	<b>P M-10:</b>	<b>6.5</b>	lb/ton =	<b>4,270.50 ton/yr</b>
	<b>VOC:</b>	<b>0.032</b>	lb/ton =	<b>21.02 ton/yr</b>
	<b>Pb:</b>	<b>0.0000033</b>	lb/ton =	<b>0.00 ton/yr</b>
	<b>HCl:</b>	<b>0.00021</b>	lb/ton =	<b>0.14 ton/yr</b>
	<b>NOx</b>	<b>0.055</b>	lb/ton =	<b>36.14 ton/yr</b>
	<b>CO</b>	<b>0.13</b>	lb/ton =	<b>85.41 ton/yr</b>

**\*\* conveying / handling \*\***

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

$$E = k \cdot (0.0032) \cdot \left( \frac{U}{5} \right)^{1.3} \cdot \left( \frac{M}{2} \right)^{1.4}$$

$$= \frac{5.23E-03 \text{ lb PM-10/ton}}{1.11E-02 \text{ lb PM/ton}}$$

where k = 0.35 (particle size multiplier for <10um)  
0.74 (particle size multiplier for <30um)

U = 12 mph mean wind speed  
M = 1.5 material moisture content (%)

$$\frac{505 \text{ ton/hr} \cdot 8,760 \text{ hrs/yr} \cdot E_f \text{ (lb/ton of material)}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$$

**Total PM 10 Emissions: 11.57 tons/yr**  
**Total PM Emissions: 24.45 tons/yr**

**\*\* unpaved roads \*\***

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (03/2006).

1. Tri-axle Truck

Number of miles per year: 20000 miles per year

$$E_f = k \cdot (s/12)^{0.8} \cdot (W/3)^b \cdot (Mdry/0.2)^c \cdot ((365-p)/365)$$

For PM-10 = 0.44 lb PM/mile For PM = 1.43 lb PM/mile

where k = 1.5 (particle size multiplier for PM-10)	where k = 4.9
s = 1.5 mean % silt content of unpaved roads	s = 1.5
b = 0.45 Constant for PM-10	b = 0.45
c = 0.2 Constant for PM-10	c = 0.3
W = 20 tons average vehicle weight	W = 20
Mdry = 0.2 surface material moisture, %	Mdry = 0.2
p = 125 number of days with at least 0.254 mm of precipitation	p = 125

$$\text{PM-10: } \frac{0.44 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 4.39 \text{ tons/yr}$$

$$\text{PM: } \frac{1.43 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 14.34 \text{ tons/yr}$$

2. Front end loader

Number of miles per year: 20000 miles per year

$$E_f = k \cdot (s/12)^{0.8} \cdot (W/3)^b \cdot (Mdry/0.2)^c \cdot ((365-p)/365)$$

For PM-10 = 0.44 lb PM/mile For PM = 1.43 lb PM/mile

where k = 1.5 (particle size multiplier for PM-10)	where k = 4.9
s = 1.5 mean % silt content of unpaved roads	s = 1.5
b = 0.45 Constant for PM-10	b = 0.45
c = 0.2 Constant for PM-10	c = 0.3
W = 20 tons average vehicle weight	W = 20
Mdry = 0.2 surface material moisture, %	Mdry = 0.2
p = 125 number of days with at least 0.254 mm of precipitation	p = 125

$$\text{PM-10: } \frac{0.44 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 4.39 \text{ tons/yr}$$

$$\text{PM: } \frac{1.43 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 14.34 \text{ tons/yr}$$

**Total PM Emissions From Unpaved Roads = 28.67 tons/yr**  
**Total PM-10 Emissions From Unpaved Roads = 8.78 tons/yr**

**\*\* paved roads \*\***

The following calculations determine the amount of emissions created by vehicle traffic on paved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.1.

20000 miles per year for all vehicles combined (based on information in original FESOP application)

$$E_f = k \cdot (sL/2)^{0.65} \cdot (W/3)^{1.5} \cdot C$$

$$= \frac{0.27 \text{ lb PM-10/mile}}{1.41 \text{ lb PM/mile}}$$

where k = 0.016 (particle size multiplier for PM-10) (k=0.082 for PM-30 or TSP)

sL = 2 road surface silt loading (g/m<sup>2</sup>)  
W = 20.0 tons average weight of all vehicles traveling the road  
C = 0.00047 emission factor for 1980's vehicle exhaust, brake wear and tire wear for PM and PM10

$$\text{PM-10: } \frac{0.27 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 2.75 \text{ tons/yr}$$

$$\text{PM: } \frac{1.41 \text{ lb/mi} \times 20000 \text{ mi/yr}}{2000 \text{ lb/ton}} = 14.11 \text{ tons/yr}$$

**Total PM Emissions From Paved Roads = 14.11 tons/yr**  
**Total PM-10 Emissions From Paved Roads = 2.75 tons/yr**

**\*\* storage \*\***

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

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	PM EF lb/acre/day	PM Emissions tons/yr	PM-10 Emissions (35% of PM) tons/yr
Sand	3.0	0.18	10,000.00	3.47	0.12	0.04
#8 Aggregate	2.0	0.37	20,000.00	2.31	0.16	0.05
#57 Aggregate	2.0	0.37	20,000.00	2.31	0.16	0.05
RAP	1.0	0.37	20,000.00	1.16	0.08	0.03
<b>Total</b>					<b>0.43</b>	<b>0.15</b>

Sample Calculation:

$$E_f = 1.7 \cdot (s/1.5)^3 \cdot (365-p)/235 \cdot (f/15)$$

= 1.74 lb/acre/day  
 where s = 1.5 % silt  
 p = 125 days of rain greater than or equal to 0.01 inches  
 f = 15 % of wind greater than or equal to 12 mph

**\*\* load-out \*\***

The following calculations determine the amount of emissions created by plant load-out, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.  
 Maximum throughput = 505 tons/hr

$$PM/PM_{10} Ef = 0.000181 + 0.00141(-V)e^{(0.0251)(T+460)-20.43}$$

= 5.22E-04 lb PM or PM-10 per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**PM/PM10 = 1.15 tons/yr**  
**Total PAH HAPs = 0.04 tons/yr** (5.93% of Organic PM emissions per AP-42)\*  
**Phenol = 0.01 tons/yr** (1.18% of Organic PM emissions per AP-42)\*

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

= 4.16E-03 lb TOC per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**VOC = 8.65 tons/yr** (94% of TOC emissions per AP-42)  
**Worst Case Single HAP (Xylenes) = 0.05 tons/yr** (0.49% of TOC emissions per AP-42)  
**Total Volatile HAPs = 0.14 tons/yr** (1.5% of TOC emissions per AP-42)

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

= 1.35E-03 lb CO per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**CO = 2.98 tons/yr**

**\*\* silo filling \*\***

The following calculations determine the amount of emissions created by silo filling, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

$$PM/PM_{10} Ef = 0.000332 + 0.00105(-V)e^{(0.0251)(T+460)-20.43}$$

= 5.86E-04 lb PM or PM-10 per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**PM/PM10 = 1.30 tons/yr**  
**Total PAH HAPs = 0.09 tons/yr** (11.40% of Organic PM emissions per AP-42)\*

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

= 1.22E-02 lb TOC per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**VOC = 26.96 tons/yr** (100% of TOC emissions per AP-42)  
**Worst Case Single HAP (Formaldehyde) = 0.19 tons/yr** (0.69% of TOC emissions per AP-42)  
**Total Volatile HAPs = 0.35 tons/yr** (1.3% of TOC emissions per AP-42)

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

= 1.18E-03 lb CO per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**CO = 2.61 tons/yr**

\* Organic PM emissions are calculated using the equation from Table 11.1-14.

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

= 3.41E-04 lb PM or PM-10 per ton of asphalt mix produced  
 where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)  
 T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

**Emissions from the Rush County Stone Plant (See Appendix A.2 for detailed emission calculations)**

Total emissions before controls:	PM =	101.82 tons/yr
	PM-10 =	40.52 tons/yr
Total emissions after controls:	PM =	32.23 tons/yr
	PM-10 =	7.39 tons/yr

** summary of source emissions before controls **		
Criteria Pollutants:	<b>P M:</b>	<b>18,995.53 ton/yr</b>
	<b>P M-10:</b>	<b>4,677.40 ton/yr</b>
	<b>S O<sub>2</sub>:</b>	<b>499.99 ton/yr</b>
	<b>N O<sub>x</sub>:</b>	<b>191.48 ton/yr</b>
	<b>V O C:</b>	<b>57.49 ton/yr</b> (VOCs include HAPs from aggregate drying operations)
	<b>C O:</b>	<b>99.36 ton/yr</b>
	<b>HCl:</b>	<b>175.93 ton/yr</b>
	<b>Pb:</b>	<b>0.00 ton/yr</b>

**\*\* source emissions after controls \*\***

In order to qualify for the FESOP program, this source must limit PM-10, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions to less than 100 tons per year each. Consequently, SO<sub>2</sub> emissions from the use of No. 2 fuel oil and re-refined (waste) oil is being limited to less than 89.70 tons per year (from the aggregate dryer) and NO<sub>x</sub> emissions from the use of re-refined waste oil and No. 2 fuel oil is limited to less than 68.35 (from the aggregate dryer). The annual throughput of asphalt mix to the drum mixer is also limited in order to limit VOC and CO emissions from drum mixing operations to each less than 100 tons per year.

\* Emissions of PM and PM-10 from aggregate drying operations are controlled with a **99.900** % control efficiency.

The following calculations determine the amount of emissions created by No. 2 fuel oil @ **0.40** % sulfur based on a fuel usage limitation of **2,085,582** gal/yr:

<b>No. 2 Distillate Oil:</b>	<u>2,085,582 gal/yr</u>	* Ef (lb/1,000 gal) = (ton/yr)
	2,000 lb/ton	
<b>P M:</b>	2.0 lb/1000 gal =	<b>2.09E-03 ton/yr *</b>
<b>P M-10:</b>	3.3 lb/1000 gal =	<b>3.44E-03 ton/yr *</b>
<b>S O<sub>2</sub>:</b>	62.8 lb/1000 gal =	<b>65.49 ton/yr</b>
<b>N O<sub>x</sub>:</b>	24.0 lb/1000 gal =	<b>25.03 ton/yr</b>
<b>V O C:</b>	0.2 lb/1000 gal =	<b>0.21 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>5.21 ton/yr</b>

The following calculations determine the amount of emissions created by re-refined waste oil @ **0.50** % sulfur based on a fuel usage limitation of **750,000** gal/yr:

<b>Re-refined Waste Oil:</b>	<u>750,000 gal/yr</u>	* Ef (lb/1,000 gal) = (ton/yr)
	2,000 lb/ton	
<b>P M:</b>	64.0 lb/1000 gal =	<b>2.40E-02 ton/yr *</b>
<b>P M-10:</b>	51.0 lb/1000 gal =	<b>1.91E-02 ton/yr *</b>
<b>S O<sub>2</sub>:</b>	73.5 lb/1000 gal =	<b>27.56 ton/yr</b>
<b>N O<sub>x</sub>:</b>	19.0 lb/1000 gal =	<b>7.13 ton/yr</b>
<b>V O C:</b>	1.0 lb/1000 gal =	<b>0.38 ton/yr</b>
<b>C O:</b>	5.0 lb/1000 gal =	<b>1.88 ton/yr</b>
<b>HCl:</b>	26.4 lb/1000 gal =	<b>9.90 ton/yr</b>

The limited emissions from the aggregate dryer burner due to fuel combustion are the following:

Criteria Pollutant:		Worst Case Fuel
<b>P M:</b>	<b>0.02 ton/yr</b>	Re-refined Waste Oil
<b>P M-10:</b>	<b>0.02 ton/yr</b>	Re-refined Waste Oil
<b>S O<sub>2</sub>:</b>	<b>65.49 ton/yr</b>	No. 2 fuel oil
<b>N O<sub>x</sub>:</b>	<b>25.03 ton/yr</b>	No. 2 fuel oil
<b>V O C:</b>	<b>0.38 ton/yr</b>	Re-refined Waste Oil
<b>C O:</b>	<b>5.21 ton/yr</b>	No. 2 fuel oil
<b>HCl:</b>	<b>9.90 ton/yr</b>	Re-refined Waste Oil

**Fuel Usage Limitations to Limit SO<sub>2</sub>**

Fuel Oil: Waste Oil

$$\frac{89.70 \text{ tons SO}_2/\text{year limited}}{489.79 \text{ tons SO}_2/\text{year potential}} \cdot 13327.71 \frac{\text{Kgals}}{\text{year potential}} = 2440.93 \frac{\text{Kgals}}{\text{year limited}}$$

**Fuel Usage Limitations to Limit NO<sub>x</sub>**

Fuel Oil: No. 2 Fuel Oil

$$\frac{68.35 \text{ tons NO}_x/\text{year limited}}{159.93 \text{ tons NO}_x/\text{year potential}} \cdot 13327.71 \frac{\text{Kgals}}{\text{year potential}} = 5695.79 \frac{\text{Kgals}}{\text{year limited}}$$

**Fuel Usage Limitations to Limit HCl**

Fuel Oil: Waste Oil

$$\frac{9.90 \text{ tons HCl}/\text{year limited}}{175.93 \text{ tons HCl}/\text{year potential}} \cdot 13327.71 \frac{\text{Kgals}}{\text{year potential}} = 750.00 \frac{\text{Kgals}}{\text{year limited}}$$

**Fuel equivalence for No. 2 fuel oil is determined from the limiting pollutant, SO<sub>2</sub>, as follows:**

$$\frac{62.8 \text{ lb}/1000 \text{ gal No. 2 fuel oil}}{73.50 \text{ lb}/1000 \text{ gal waste oil}} = 0.854 \text{ gallons (No. 2 fuel oil is equivalent to 0.854 gallons of waste oil burned)}$$

**Fuel equivalence for waste oil is determined from the limiting pollutant, NO<sub>x</sub>, as follows:**

$$\frac{19.0 \text{ lb}/1000 \text{ gal waste oil}}{24.00 \text{ lb}/1000 \text{ gal No. 2 fuel oil}} = 0.792 \text{ gallons (waste oil is equivalent to 0.792 gallons of No. 2 fuel oil burned)}$$

**No fuel equivalence limit is required for No. 2 fuel in order to limit HCl emissions because No. 2 fuel oil does not contain chlorine.**

**\*\* source emissions after controls \*\***

heaters and generator:		nonfugitive	
<b>P M:</b>	1.11 ton/yr x	100.00% emitted after controls =	1.11 ton/yr
<b>P M-10:</b>	0.83 ton/yr x	100.00% emitted after controls =	0.83 ton/yr
<b>S O<sub>2</sub>:</b>	10.20 ton/yr x	100.00% emitted after controls =	10.20 ton/yr
<b>N O<sub>x</sub>:</b>	31.55 ton/yr x	100.00% emitted after controls =	31.55 ton/yr
<b>V O C:</b>	0.87 ton/yr x	100.00% emitted after controls =	0.87 ton/yr
<b>C O:</b>	8.35 ton/yr x	100.00% emitted after controls =	8.35 ton/yr
dryer burner combustion:		nonfugitive	
<b>P M:</b>	426.49 ton/yr x	0.10% emitted after controls =	0.43 ton/yr
<b>P M-10:</b>	339.86 ton/yr x	0.10% emitted after controls =	0.34 ton/yr
<b>S O<sub>2</sub>:</b>	65.49 ton/yr x	100.00% emitted after controls =	65.49 ton/yr
<b>N O<sub>x</sub>:</b>	25.03 ton/yr x	100.00% emitted after controls =	ton/yr
<b>V O C:</b>	0.38 ton/yr x	100.00% emitted after controls =	ton/yr
<b>C O:</b>	5.21 ton/yr x	100.00% emitted after controls =	ton/yr
<b>HCl:</b>	9.90 ton/yr x	100.00% emitted after controls =	9.90 ton/yr
drum mix:		nonfugitive	
<b>P M:</b>	18,396.00 ton/yr x	0.10% emitted after controls =	18.40 ton/yr
<b>P M-10:</b>	4,270.50 ton/yr x	0.10% emitted after controls =	4.27 ton/yr
<b>VOC:</b>	21.02 ton/yr x	100.00% emitted after controls =	21.02 ton/yr
<b>HCl:</b>	0.00 ton/yr x	100.00% emitted after controls =	0.00 ton/yr
<b>NOx</b>	36.14 ton/yr x	100.00% emitted after controls =	36.14 ton/yr
<b>CO</b>	85.41 ton/yr x	100.00% emitted after controls =	85.41 ton/yr
conveying/handling:		fugitive	
<b>P M:</b>	24.45 ton/yr x	50% emitted after controls =	12.23 ton/yr
<b>P M-10:</b>	11.57 ton/yr x	50% emitted after controls =	5.78 ton/yr
unpaved roads:		fugitive	
<b>P M:</b>	28.67 ton/yr x	50% emitted after controls =	14.34 ton/yr
<b>P M-10:</b>	8.78 ton/yr x	50% emitted after controls =	4.39 ton/yr
paved roads:		fugitive	
<b>P M:</b>	14.11 ton/yr x	50% emitted after controls =	7.06 ton/yr
<b>P M-10:</b>	2.75 ton/yr x	50% emitted after controls =	1.37 ton/yr
load-out and silo filling:		fugitive	
<b>P M:</b>	2.45 ton/yr x	100% emitted after controls =	2.45 ton/yr
<b>P M-10:</b>	2.45 ton/yr x	100% emitted after controls =	2.45 ton/yr
<b>V O C:</b>	35.60 ton/yr x	100% emitted after controls =	35.60 ton/yr
<b>C O:</b>	5.59 ton/yr x	100% emitted after controls =	5.59 ton/yr
<b>HAPs:</b>	0.49 ton/yr x	100% emitted after controls =	0.49 ton/yr
storage piles:		fugitive	
<b>P M:</b>	0.43 ton/yr x	50% emitted after controls =	0.21 ton/yr
<b>P M-10:</b>	0.15 ton/yr x	50% emitted after controls =	0.07 ton/yr
Rush County Stone Plant			
		nonfugitive	
<b>P M:</b>	71.01 ton/yr x	2% emitted after controls =	1.42 ton/yr
<b>P M-10:</b>	33.81 ton/yr x	2% emitted after controls =	0.68 ton/yr
		fugitive	
<b>P M:</b>	30.81 ton/yr x	100% emitted after controls =	30.81 ton/yr
<b>P M-10:</b>	6.71 ton/yr x	100% emitted after controls =	6.71 ton/yr

**\*\* summary of source emissions after limitation and controls \*\***

Criteria Pollutant:	Non-Fugitive		Fugitive	Total
<b>PM:</b>	21.35 ton/yr		67.09 ton/yr	88.44 ton/yr
<b>PM-10:</b>	6.12 ton/yr		20.78 ton/yr	26.90 ton/yr
<b>S O<sub>2</sub>:</b>	75.68 ton/yr		0.00 ton/yr	75.68 ton/yr
<b>N O<sub>x</sub>:</b>	37.00 ton/yr		0.00 ton/yr	37.00 ton/yr
<b>V O C:</b>	21.89 ton/yr		35.60 ton/yr	57.49 ton/yr
<b>C O:</b>	93.76 ton/yr		5.59 ton/yr	99.36 ton/yr
<b>HCl:</b>	9.90 ton/yr		0.00 ton/yr	9.90 ton/yr

Note: \* Worst-case emissions from either the aggregate dryer burners or drum mixing operations.

**Hazardous Air Pollutants (HAPs)**

**\*\* aggregate dryer burner\*\***

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.40 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-10.

\* Metal Emissions from aggregate drying operations are controlled with a 99.90% control efficiency.

Hazardous Air Pollutants (HAPs):

	213 MMBtu/hr * 8760 hr/yr 2,000 lb/ton	Potential To Emit (lb/10 <sup>12</sup> Btu) = (ton/yr)	Limited Emissions
<b>Beryllium:</b>	3 lb/10 <sup>12</sup> Btu =	2.80E-03 ton/yr	2.80E-06 ton/yr
<b>Mercury:</b>	3 lb/10 <sup>12</sup> Btu =	2.80E-03 ton/yr	2.80E-06 ton/yr
<b>Selenium:</b>	15 lb/10 <sup>12</sup> Btu =	1.40E-02 ton/yr	1.40E-05 ton/yr
<b>Total HAPs =</b>		1.96E-02 ton/yr	1.96E-05 ton/yr

The following calculations determine the amount of HAP emissions created by the combustion of waste oil before & after controls @ 0.50 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.11-1 and 1.11-4.

Hazardous Air Pollutants (HAPs):

	213 MMBtu/hr * 8760 hr/yr 140,000 Btu/gal * 2,000 lb/ton	Potential To Emit (lb/1,000 gal) = (ton/yr)	Limited Emissions
<b>Arsenic:</b>	1.10E-01 lb/1000 gal =	7.33E-01 ton/yr	7.33E-04 ton/yr
<b>Cadmium:</b>	9.30E-03 lb/1000 gal =	6.20E-02 ton/yr	6.20E-05 ton/yr
<b>Chromium:</b>	2.00E-02 lb/1000 gal =	1.33E-01 ton/yr	1.33E-04 ton/yr
<b>Cobalt:</b>	2.10E-04 lb/1000 gal =	1.40E-03 ton/yr	1.40E-06 ton/yr
<b>Lead:</b>	1.87E-01 lb/1000 gal =	1.25E+00 ton/yr	1.25E-03 ton/yr
<b>Manganese:</b>	6.80E-02 lb/1000 gal =	4.53E-01 ton/yr	4.53E-04 ton/yr
<b>Nickel:</b>	1.10E-02 lb/1000 gal =	7.33E-02 ton/yr	7.33E-05 ton/yr
<b>Total HAPs =</b>		2.70E+00 ton/yr	2.70E-03 ton/yr

**\*\* aggregate drying: drum-mixer \*\***

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-10 for a drum mix dryer which can be fired with either fuel oil or waste oil.

Pollutant:	Ef	lb/ton x	150 ton/hr x	8760 hr/yr	Potential To Emit	Limited Emissions
			2000 lb/ton			
<b>Acetaldehyde</b>		3.20E-04	lb/ton =		0.21 ton/yr	0.21 ton/yr
<b>Acrolein</b>		2.60E-05	lb/ton =		0.02 ton/yr	0.02 ton/yr
<b>Benzene:</b>		3.90E-04	lb/ton =		0.26 ton/yr	0.26 ton/yr
<b>Ethyl benzene:</b>		2.40E-04	lb/ton =		0.16 ton/yr	0.16 ton/yr
<b>Formaldehyde:</b>		3.10E-03	lb/ton =		2.04 ton/yr	2.04 ton/yr
<b>Hexane:</b>		9.20E-04	lb/ton =		0.60 ton/yr	0.60 ton/yr
<b>2,2,4 Trimethylpentane:</b>		4.00E-05	lb/ton =		0.03 ton/yr	0.03 ton/yr
<b>Methyl chloroform:</b>		4.8E-05	lb/ton =		0.03 ton/yr	0.03 ton/yr
<b>Propionaldehyde</b>		1.30E-04	lb/ton =		0.09 ton/yr	0.09 ton/yr
<b>Quinone</b>		1.60E-04	lb/ton =		0.11 ton/yr	0.11 ton/yr
<b>Toluene:</b>		2.90E-03	lb/ton =		1.91 ton/yr	1.91 ton/yr
<b>Total Polycyclic Organic Matter (POM):</b>		8.800E-04	lb/ton =		0.58 ton/yr	0.58 ton/yr
<b>Xylene:</b>		2.00E-04	lb/ton =		0.13 ton/yr	0.13 ton/yr
<b>Total HAPs =</b>					5.92 ton/yr	5.92 ton/yr

**\*\* summary of source HAP emissions potential to emit \*\***

Hazardous Air Pollutants (HAPs):

Acetaldehyde:	0.210 ton/yr
Acrolein:	0.017 ton/yr
Arsenic:	0.733 ton/yr
Benzene:	0.256 ton/yr
Beryllium:	0.003 ton/yr
Cadmium:	0.062 ton/yr
Chromium:	0.133 ton/yr
Cobalt:	0.001 ton/yr
Ethyl benzene:	0.158 ton/yr
Formaldehyde:	2.037 ton/yr
Hexane:	0.604 ton/yr
Lead:	1.246 ton/yr
2,2,4 Trimethylpentane:	0.026 ton/yr
Manganese:	0.453 ton/yr
Mercury:	0.003 ton/yr
Methyl chloroform:	0.032 ton/yr
Propionaldehyde:	0.085 ton/yr
Quinone:	0.105 ton/yr
Nickel:	0.073 ton/yr
Selenium:	0.014 ton/yr
Toluene:	1.905 ton/yr
Total POM:	0.578 ton/yr
Xylene:	0.131 ton/yr
<b>Total:</b>	<b>8.867 ton/yr</b>

**\*\* summary of source HAP limited emissions \*\***

Hazardous Air Pollutants (HAPs):

Acetaldehyde:	0.210 ton/yr
Acrolein:	0.017 ton/yr
Arsenic:	0.001 ton/yr
Benzene:	0.256 ton/yr
Beryllium:	0.000 ton/yr
Cadmium:	0.000 ton/yr
Chromium:	0.000 ton/yr
Cobalt:	0.000 ton/yr
Ethyl benzene:	0.158 ton/yr
Formaldehyde:	2.037 ton/yr
Hexane:	0.604 ton/yr
Lead:	0.001 ton/yr
2,2,4 Trimethylpentane:	0.026 ton/yr
Manganese:	0.000 ton/yr
Mercury:	0.000 ton/yr
Methyl chloroform:	0.032 ton/yr
Propionaldehyde:	0.085 ton/yr
Quinone:	0.105 ton/yr
Nickel:	0.000 ton/yr
Selenium:	0.000 ton/yr
Toluene:	0.578 ton/yr
Total POM:	0.578 ton/yr
Xylene:	0.131 ton/yr
<b>Total:</b>	<b>4.821 ton/yr</b>

**\*\* miscellaneous \*\***

**326 IAC 7 Compliance Calculations:**

The following calculations determine the maximum sulfur content of distillate # 2 fuel oil allowable by 326 IAC 7:

$$\begin{aligned} &0.5 \text{ lb/MMBtu} \times 140,000 \text{ Btu/gal} = 70 \text{ lb/1000gal} \\ &70 \text{ lb/1000gal} / 157 \text{ lb/1000 gal} = 0.4 \% \\ &\text{Sulfur content must be less than or equal to } 0.4\% \text{ to comply with 326 IAC 7.} \end{aligned}$$

The following calculations determine the maximum sulfur content of re-refined waste oil allowable by 326 IAC 7:

$$\begin{aligned} &1.6 \text{ lb/MMBtu} \times 140,000 \text{ Btu/gal} = 224 \text{ lb/1000gal} \\ &224 \text{ lb/1000gal} / 147 \text{ lb/1000 gal} = 1.5 \% \\ &\text{Sulfur content must be less than or equal to } 1.5\% \text{ to comply with 326 IAC 7.} \end{aligned}$$

**326 IAC 6-3-2 Compliance Calculations:**

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates in excess of 30 tons per hour:

$$\text{limit} = 55 * (150 ^{0.11}) - 40 = 55.44 \text{ lb/hr or } 242.83 \text{ ton/yr}$$

Since the emission limits pursuant to 326 IAC 6.5-1-2 of 20.00 lbs/hr is more stringent than this limit, the limit pursuant to 326 IAC 6-3-2 does not apply. The emission limit pursuant to 326 IAC 6.5-1-2 shall also render the requirements of 326 IAC 2-2 (PSD) not applicable.

**PM-10 Emission Limit for Aggregate Dryer/Drum Mixer:**

$$\begin{aligned} &(99.9 \text{ tons PM-10/yr} - 28.15 \text{ tons PM-10/yr from other sources}) \\ &= 71.75 \text{ tons PM-10/yr} = 16.38 \text{ lbs/hr} \\ &\text{PM-10 emissions from the aggregate dryer and drum mixer are controlled to } 1.08 \text{ lbs/hr} < 16.38 \text{ lbs/hr} \\ &\text{Based on a limited asphalt mix throughput of } 150 \text{ tons/hr, this emission limit is equivalent to } 0.109 \text{ lb PM10 per ton of asphalt mix.} \end{aligned} \quad \text{(Will be able to comply)}$$

**PM Emission Limit for Aggregate Dryer/Drum Mixer:**

$$\begin{aligned} &(249.9 \text{ tons PM/yr} - 82.06 \text{ tons PM/yr from other sources}) \\ &= 167.84 \text{ tons PM/yr} = 38.32 \text{ lbs/hr} \\ &\text{PM emissions from the aggregate dryer/drum mixer are controlled to } 4.44 \text{ lbs/hr} < 38.32 \text{ lbs/hr} \\ &\text{Based on a maximum asphalt mix throughput of } 150 \text{ tons/hr, this emission limit is equivalent to } 0.0286 \text{ lb PM per ton of asphalt mix.} \end{aligned} \quad \text{(Will be able to comply)}$$

**40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) and 326 IAC 6.5-1-2(a) (formerly 326 IAC 6-1-2(a)) Compliance Calculations:**

The following calculations determine compliance with 326 IAC 6.5-1-2 (for counties listed in 326 IAC 6.5-1-1(a)) and NSPS, which limits stack emissions from asphalt plants to 0.03 gr/dscf (when in counties listed in 326 IAC 6.5-1-1(a)), and 0.04 gr/dscf (when not located in those counties):

$$\begin{aligned} &\frac{18.82 \text{ ton/yr} * 2000 \text{ lb/ton} * 7000 \text{ gr/lb}}{525,600 \text{ min/yr} * 77,797 \text{ dscf/min}} = 0.006 \text{ gr/dscf} \quad \text{(will be able to comply)} \\ &\text{Allowable particulate emissions under NSPS equate to } 116.83 \text{ tons per year.} \\ &\text{Allowable particulate emissions under 326 IAC 6.5-1-2 equate to } 87.62 \text{ tons per year.} \end{aligned}$$

Note:

$$\text{SCFM} = \frac{108,000 \text{ acfm} * (460 + 68) * (1 - 0.045)}{77,797 \text{ scfm}} / (460 + 240)$$

Assumes exhaust gas temperature of 240F, exhaust gas moisture content of 4.5% and exhaust gas flow of 108,000 acfm.

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

**Company Name: Valley Asphalt Corporation**  
**Address City IN Zip: 5814 West SR 244, Milroy, IN 46156**  
**Significant Permit Revision No.: F139-24058-05243**  
**Reviewer: TW/EVP**  
**Date: Nov-06**

<b>Uncontrolled Potential Emissions (tons/year)</b>		
Emissions Generating Activity		
Pollutant	Permanent Crushing Operations	TOTAL
PM	101.82	101.82
PM10	40.52	40.52
SO2	0.00	0.00
NOx	0.00	0.00
VOC	0.00	0.00
CO	0.00	0.00
total HAPs	0.00	0.00
worst case single HAP	0.00	0.00
Total emissions based on rated capacity at 8,760 hours/year.		
<b>Controlled Potential Emissions (tons/year)</b>		
Emissions Generating Activity		
Pollutant	Permanent Crushing Operations	TOTAL
PM	32.23	32.23
PM10	7.39	7.39
SO2	0.00	0.00
NOx	0.00	0.00
VOC	0.00	0.00
CO	0.00	0.00
total HAPs	0.00	0.00
worst case single HAP	0.00	0.00
Total emissions based on rated capacity at 8,760 hours/year, after control.		

**Appendix A.2: Emission Calculations  
Permanent Crushing Operation**

**Company Name: Valley Asphalt Corporation  
Address City IN Zip: 5814 West SR 244, Milroy, IN 46156  
Significant Permit Revision No.: F139-24058-05243  
Reviewer: TW/EVP  
Date: Nov-06**

**\*\* PM emissions before controls \*\***

Storage						0.47 tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting						28.95 tons/yr	AP-42 Ch.13.2.2 (Supplement E, 9/98)
Loading & Unloading	200 ton/hr x	0.0016	lb/ton /2000 lb/ton x	8760	hr/yr =	1.40 tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95)
Crushing (primary)	200 ton/hr x	0.00504	lb/ton /2000 lb/ton x	8760	hr/yr =	4.42 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)	200 ton/hr x	0.00504	lb/ton /2000 lb/ton x	8760	hr/yr =	4.42 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)	200 ton/hr x	0.00504	lb/ton /2000 lb/ton x	8760	hr/yr =	4.42 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Finish Screens	200 ton/hr x	0.0315	lb/ton /2000 lb/ton x	8760	hr/yr =	27.59 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Scalper Screens	200 ton/hr x	0.0315	lb/ton /2000 lb/ton x	8760	hr/yr =	27.59 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer	200 ton/hr x	0.00294	lb/ton /2000 lb/ton x	8760	hr/yr =	2.58 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
<b>Total emissions before controls:</b>						<b>101.82 tons/yr</b>	

\* Maximum throughput for loading is 200 tons per hour

**\*\* PM emissions after controls \*\***

Storage	0.47 tons/yr x	100% emitted after controls =	0.47 tons/yr
Transporting	28.95 tons/yr x	100% emitted after controls =	28.95 tons/yr
Loading & Unloading	1.40 tons/yr x	100% emitted after controls =	1.40 tons/yr
Crushing (primary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Crushing (secondary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Crushing (tertiary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Finish Screens	27.59 tons/yr x	2% emitted after controls =	0.55 tons/yr
Scalper Screens	27.59 tons/yr x	2% emitted after controls =	0.55 tons/yr
Conveyor Transfer	2.58 tons/yr x	2% emitted after controls =	0.05 tons/yr
<b>Total emissions after controls:</b>			<b>32.23 tons/yr</b>

**\*\* PM10 emissions before controls \*\***

Storage						0.16 tons/yr	AP-42 Ch.11.2.3 (Fourth edition, no update)
Transporting						5.85 tons/yr	AP-42 Ch.13.2.2 (Supplement E, 9/98)
Loading & Unloading	200 ton/hr x	0.0008	lb/ton /2000 lb/ton x	8760	hr/yr =	0.70 tons/yr	AP-42 Ch.13.2.4 (Fifth edition, 1/95)
Crushing (primary)	200 ton/hr x	0.0024	lb/ton /2000 lb/ton x	8760	hr/yr =	2.10 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (secondary)	200 ton/hr x	0.0024	lb/ton /2000 lb/ton x	8760	hr/yr =	2.10 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Crushing (tertiary)	200 ton/hr x	0.0024	lb/ton /2000 lb/ton x	8760	hr/yr =	2.10 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Finish Screens	200 ton/hr x	0.015	lb/ton /2000 lb/ton x	8760	hr/yr =	13.14 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Scalper Screens	200 ton/hr x	0.015	lb/ton /2000 lb/ton x	8760	hr/yr =	13.14 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
Conveyor Transfer	200 ton/hr x	0.0014	lb/ton /2000 lb/ton x	8760	hr/yr =	1.23 tons/yr	AP-42 Ch.11.19.2 (Fifth edition, 1/95)
<b>Total emissions before controls:</b>						<b>40.52 tons/yr</b>	

\*\* PM10 emissions after controls \*\*

Storage	0.16 tons/yr x	100% emitted after controls =	0.16 tons/yr
Transporting	5.85 tons/yr x	100% emitted after controls =	5.85 tons/yr
Loading & Unloading	0.70 tons/yr x	100% emitted after controls =	0.70 tons/yr
Crushing (primary)	2.10 tons/yr x	2% emitted after controls =	0.04 tons/yr
Crushing (secondary)	2.10 tons/yr x	2% emitted after controls =	0.04 tons/yr
Crushing (tertiary)	2.10 tons/yr x	2% emitted after controls =	0.04 tons/yr
Finish Screens	13.14 tons/yr x	2% emitted after controls =	0.26 tons/yr
Scalper Screens	13.14 tons/yr x	2% emitted after controls =	0.26 tons/yr
Conveyor Transfer	1.23 tons/yr x	2% emitted after controls =	0.02 tons/yr
<hr/> Total emissions after controls:			7.39 tons/yr

\*\* fugitive vs. nonfugitive \*\*

Storage	0.47 tons/yr x	100% emitted after controls =	0.47 tons/yr
Transporting	28.95 tons/yr x	100% emitted after controls =	28.95 tons/yr
Loading / Unloading	1.40 tons/yr x	100% emitted after controls =	1.40 tons/yr
<hr/> Total fugitive emissions:			30.81 tons/yr
Crushing (primary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Crushing (secondary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Crushing (tertiary)	4.42 tons/yr x	2% emitted after controls =	0.09 tons/yr
Finish Screens	27.59 tons/yr x	2% emitted after controls =	0.55 tons/yr
Scalper Screens	27.59 tons/yr x	2% emitted after controls =	0.55 tons/yr
Conveying:	2.58 tons/yr x	2% emitted after controls =	0.05 tons/yr
<hr/> Total nonfugitive emissions:			1.42 tons/yr

\*\* storage \*\*

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

$$E_f = 1.7 \cdot (s/1.5)^3 \cdot (365-p) / 235 \cdot (f/15)$$

$$= 1.74 \text{ lb/acre/day}$$

where s =	1.5 % silt content of material	$E_p \text{ (storage)} = E_f \cdot sc \cdot (40 \text{ cuft/ton}) / (2000 \text{ lb/ton}) / (43560 \text{ sqft/acre}) / (25 \text{ ft}) \cdot (365 \text{ day/yr})$
p =	125 days of rain greater than or equal to 0.01 inches	= 0.47 tons/yr
f =	15 % of wind greater than or equal to 12 mph	where sc = 40 ,000 tons storage capacity

PM Emissions =	0.47 tons/yr
PM-10 Emissions = 35% of PM emissions =	0.162935 tons/yr

**HAUL TRUCKS TO CRUSHER**

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.2.2.

$$\begin{aligned} & 0 \text{ trip/hr} \times \\ & 0 \text{ mile/trip} \times \\ & 0 \text{ (round trip) } \times \\ 8,760 \text{ hr/yr} & = \qquad \qquad \qquad 0 \text{ miles per year} \end{aligned}$$

$$\begin{aligned} E_f &= k \cdot (s/12)^a \cdot (W/3)^b \\ &= 3.52 \text{ lb PM-10/mile} \\ &= 11.51 \text{ lb PM/mile} \\ \text{where } k &= 1.5 \text{ (particle size multiplier for PM-10)} \\ k &= 4.9 \text{ (particle size multiplier for PM)} \\ s &= 12 \text{ mean \% silt content of unpaved roads} \\ a &= 0.9 \text{ Constant for PM-10} \\ a &= 0.7 \text{ Constant for PM} \\ b &= 0.45 \text{ Constant for PM and PM-10} \\ W &= 20 \text{ tons average vehicle weight} \end{aligned}$$

$$\text{PM-10: } \frac{3.52 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$

$$\text{PM: } \frac{11.51 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$

**CUSTOMER TRUCKS**

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.2.2.

$$\begin{aligned}
 &10 \text{ trip/hr} \times \\
 &0.1231 \text{ mile/trip} \times \\
 &2 \text{ (round trip) } \times \\
 &8,760 \text{ hr/yr} = \qquad\qquad\qquad 21568.18 \text{ miles per year}
 \end{aligned}$$

$$\begin{aligned}
 E_f &= k \cdot (s/12)^a \cdot (W/3)^b \\
 &= 0.54 \text{ lb PM-10/mile} \\
 &= 2.68 \text{ lb PM/mile} \\
 \text{where } k &= 1.5 \text{ (particle size multiplier for PM-10)} \\
 k &= 4.9 \text{ (particle size multiplier for PM)} \\
 s &= 1.5 \text{ mean \% silt content of unpaved roads} \\
 a &= 0.9 \text{ Constant for PM-10} \\
 a &= 0.7 \text{ Constant for PM} \\
 b &= 0.45 \text{ Constant for PM and PM-10} \\
 W &= 20 \text{ tons average vehicle weight}
 \end{aligned}$$

$$\text{PM-10: } \frac{0.54 \text{ lb/mi} \times 21568.18 \text{ mi/yr}}{2000 \text{ lb/ton}} = \mathbf{5.85 \text{ tons/yr}}$$

$$\text{PM: } \frac{2.68 \text{ lb/mi} \times 21568.18 \text{ mi/yr}}{2000 \text{ lb/ton}} = \mathbf{28.95 \text{ tons/yr}}$$

The following calculations determine the amount of emissions created by vehicle traffic on paved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.1.2.

$$\begin{aligned}
 &0 \text{ trip/hr} \times \\
 &0 \text{ mile/trip} \times \\
 &0 \text{ (round trip) } \times \\
 &8760 \text{ hr/yr} = \qquad\qquad\qquad 0.00 \text{ miles per year}
 \end{aligned}$$

Paved Roads

$$\begin{aligned}
 E_f &= k \cdot (sL/2)^{0.65} \cdot (W/3)^{1.5} \cdot C \\
 &= 0.69 \text{ lb PM-10/mile} \\
 &= 3.53 \text{ lb PM/mile} \\
 \text{where } k &= 0.016 \text{ (particle size multiplier for PM-10)} \\
 k &= 0.082 \text{ (particle size multiplier for PM)} \\
 sL &= 8.2 \text{ road surface silt loading (grams per square meter)} \\
 W &= 20 \text{ tons average vehicle weight} \\
 C &= 0.00047 \text{ emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.}
 \end{aligned}$$

$$\text{PM-10: } \frac{0.69 \text{ lb/mi} \times 0.00 \text{ mi/yr}}{2000 \text{ lb/ton}} = \mathbf{0.00 \text{ tons/yr}}$$

$$\text{PM: } \frac{3.53 \text{ lb/mi} \times 0.00 \text{ mi/yr}}{2000 \text{ lb/ton}} = \mathbf{0.00 \text{ tons/yr}}$$

### HAUL TRUCKS TO STOCKPILES

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.2.2.

$$\begin{aligned} & 0 \text{ trip/hr} \times \\ & 0 \text{ mile/trip} \times \\ & 0 \text{ (round trip) } \times \\ 8,760 \text{ hr/yr} & = \qquad \qquad \qquad 0 \text{ miles per year} \end{aligned}$$

$$\begin{aligned} E_f &= k \cdot (s/12)^a \cdot (W/3)^b \\ &= 0.54 \text{ lb PM-10/mile} \\ &= 2.68 \text{ lb PM/mile} \end{aligned}$$

where k = 1.5 (particle size multiplier for PM-10)  
k = 4.9 (particle size multiplier for PM)  
s = 1.5 mean % silt content of unpaved roads  
a = 0.9 Constant for PM-10  
a = 0.7 Constant for PM  
b = 0.45 Constant for PM and PM-10  
W = 20 tons average vehicle weight

$$\text{PM-10: } \frac{0.54 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$

$$\text{PM: } \frac{2.68 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$

The following calculations determine the amount of emissions created by vehicle traffic on paved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.1.2.

$$\begin{aligned} & 0 \text{ trip/hr} \times \\ & 0 \text{ mile/trip} \times \\ & 0 \text{ (round trip) } \times \\ 8,760 \text{ hr/yr} & = \qquad \qquad \qquad 0.00 \text{ miles per year} \end{aligned}$$

Paved Roads

$$\begin{aligned} E_f &= k \cdot (sL/2)^{0.65} \cdot (W/3)^{1.5} \cdot C \\ &= 0.69 \text{ lb PM-10/mile} \\ &= 3.53 \text{ lb PM/mile} \end{aligned}$$

where k = 0.016 (particle size multiplier for PM-10)  
k = 0.082 (particle size multiplier for PM)  
sL = 8.2 road surface silt loading (grams per square meter)  
W = 20 tons average vehicle weight  
C = 0.00047 emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.

$$\text{PM-10: } \frac{0.69 \text{ lb/mi} \times 0.00 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$

$$\text{PM: } \frac{3.53 \text{ lb/mi} \times 0.00 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.00 \text{ tons/yr}$$