

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL  
MANAGEMENT  
OFFICE OF AIR QUALITY  
and  
VIGO COUNTY AIR POLLUTION CONTROL**

**Wabash Valley Asphalt Company, LLC  
5600 East Margaret Avenue  
Terre Haute, Indiana 47808**

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

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

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

Operation Permit No.: F167-17605-00114	
Issued by:  George M. Needham, Director Vigo County Air Pollution Control	Issuance Date: March 28, 2005  Expiration Date: March 28, 2010

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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), and Vigo County Air Pollution Control (VCAPC). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

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The Permittee owns and operates a stationary drum mix asphalt plant.

Authorized individual:	President
Source Address:	5600 East Margaret Avenue, Terre Haute, Indiana 47808
Mailing Address:	P.O. Box 8297, Terre Haute, Indiana 47807
General Source Phone:	(812) 234-7757
SIC Code:	2951
Source Location Status:	Vigo County Maintenance Attainment for Sulfur Dioxide (SO <sub>2</sub> ) Non-attainment for ozone under the 8-hour standard Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, under nonattainment NSR; Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 2.115 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV6, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (c) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (d) Two (2) above ground horizontal storage tanks used for storing AC 20, identified as tanks 9 and 9B, each with a maximum capacity of 20,000 gallons, exhausting to stack SV3 and SV5, respectively.
- (e) One (1) above ground vertical storage tank used for storing AC 20, identified as tank 9A, with a maximum capacity of 20,000 gallons, exhausting to stack SV4.
- (f) One (1) above ground vertical storage tank used for storing fuel oil #4, identified as tank 10, with a maximum capacity of 14,000 gallons, exhausting to a vent.

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

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

- (a) The following VOC and HAP storage containers:
  - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (b) Application of oils, greases, lubricants, or other nonvolatile material applied as temporary protective coatings.
- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).

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

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

**A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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

## **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.2      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.3      Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]**

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This permit 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.4      Enforceability [326 IAC 2-8-6]**

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

### **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.6      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.7      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.8      Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

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- (a)      The Permittee shall furnish to IDEM, OAQ, and VCAPC within a reasonable time, any information that IDEM, OAQ, and VCAPC 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, and VCAPC copies of records required to be kept by this permit.
  
- (b)      For information furnished by the Permittee to IDEM, OAQ, and VCAPC, 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.9 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAQ and VCAPC 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.10 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.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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

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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

- (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, and VCAPC 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, and VCAPC 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).

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

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) 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.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, and VCAPC upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and VCAPC. IDEM, OAQ, and VCAPC 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 does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) 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.13 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 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, and VCAPC, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

**IDEM, OAQ**

Telephone No.: 1-800-451-6027 (ask for IDEM, OAQ, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for IDEM, OAQ, Compliance Section)  
Facsimile No.: 317-233-5967

and

**VCAPC**

Telephone No.: 812-462-3433  
Facsimile No.: 812-462-3447

- (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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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) IDEM, OAQ, and VCAPC, 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, and VCAPC, 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.14** Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency 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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a 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 VCAPC 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 VCAPC 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 VCAPC at least thirty (30) days in advance of the date this permit is to be reopened, except that VCAPC may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.16 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 VCAPC 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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

- (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, and VCAPC on or before the date it is due.

- (2) If IDEM, OAQ, and VCAPC 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, and VCAPC 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, and VCAPC, any additional information identified as needed to process the application.

**B.17 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, Indiana 46206-6015  
  
and  
  
Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807  
  
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.

**B.18 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 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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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 trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

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

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

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, VCAPC, 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 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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)]

B.22 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 317-233-4320 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

**B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314]**

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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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and nonattainment New Source Review (NSR);
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two-hundred and fifty (250) tons per twelve (12) consecutive month period.

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

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

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

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

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

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

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

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

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

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

C.6 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 units vented to the control equipment are in operation.

C.7 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.

C.8 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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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.

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

#### **C.9 Performance Testing [326 IAC 3-6]**

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

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

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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, and VCAPC 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, and VCAPC not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and VCAPC, if the Permittee submits to IDEM, OAQ, and VCAPC 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.10 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.11 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 upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

#### **C.12 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.13 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 shall have a scale such that the expected normal reading 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) Whenever a condition in this permit requires the measurement of any parameter, the instrument employed shall have a scale such that the expected normal reading 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.
- (c) The Permittee may request the IDEM, OAQ, and VCAPC approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

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

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

C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, and VCAPC 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, and VCAPC that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ, and VCAPC may extend the retesting deadline.
- (c) IDEM, OAQ, and VCAPC reserve 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.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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 VCAPC Administrator makes a request for records to the Permittee, the Permittee shall furnish the records to the VCAPC Administrator 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.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (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 IAC2-1.1-1(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, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

Vigo County Air Pollution Control  
103 South 3rd Street  
Terre Haute, IN 47807

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

### **Stratospheric Ozone Protection**

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

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

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

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 2.115 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV6, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (c) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.

(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.1.1 Particulate Emissions Limitations [326 IAC 6-1-2] [326 IAC 2-2] [326 IAC 2-8-4]

Particulate emissions shall be limited as follows:

- (a) Pursuant to 326 IAC 6-1-2(a), the particulate emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (b) The PM-10 emissions from the aggregate dryer shall not exceed 0.0011 pounds per ton aggregate based on a maximum throughput of 400 tons of aggregate per hour or 3,504,000 tons of aggregate per year.
- (c) The PM emissions from the aggregate dryer shall not exceed 0.00475 lbs per ton aggregate based on a maximum throughput of 400 tons of aggregate per hour or 3,504,000 tons of aggregate per year.

Compliance with D.1.1(b) and (c) render 326 IAC 2-2 and 326 IAC 2-8 not applicable.

#### D.1.2 Asphalt Plant [326 IAC 12] [40 CFR 60.90 - 60.93, NSPS Subpart I]

Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):

- (a) Particulate emissions from the hot mix asphalt facility shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf). Compliance with condition D.1.1 will satisfy this requirement.
- (b) The visible emissions from the hot mix asphalt facility shall not exceed twenty percent (20%) opacity.

#### D.1.3 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating:
- (b) Stockpile storage; and
- (c) application during the months of November, December, January, February, and March.

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

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Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input when combusting distillate oil and 1.6 pounds per MMBtu heat input when combusting residual oil. The sulfur content of No. 4 fuel oil shall not exceed 0.54%.

**D.1.5 NOx Emissions - Natural gas usage [326 IAC 2-8-4] [326 IAC 2-1.1-5]**

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Pursuant to 326 IAC 2-8-4(1), the combined input of natural gas to the aggregate dryer burner and the heaters shall not exceed 1,057 MMCF (million cubic feet) per twelve (12) consecutive month period with compliance determined at the end of each month. For purposes of determining compliance, 1,000 gallons of No. 2 fuel oil is equivalent to 1,000 gallons of No. 4 fuel oil and 0.105 MMcf natural gas. Therefore, the requirements of 326 IAC 2-7, and 326 IAC 2-1.1-5 will not apply.

**D.1.6 NOx Emissions - Cutback Asphalt [326 IAC 2-8-4] [326 IAC 2-2]**

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Any change or modification which adds the use of cutback asphalt shall require prior approval from IDEM, OAQ and VCAPC.

**D.1.7 SO<sub>2</sub> Emissions – Fuel oil usage [326 IAC 2-8-4] [326 IAC 2-2]**

---

Pursuant to 326 IAC 2-8-4(1), the combined input of fuel oil # 4 to the aggregate dryer and the heaters shall be limited to 2,227,300 gallons (2,227.3 kgal) per twelve (12) consecutive month period, compliance determined at the end of each month. For purposes of determining compliance, every gallon of No. 4 fuel oil (with sulfur content of 0.54%) burned is equivalent to 1.18 gallons of No. 2 fuel oil (with sulfur content of 0.482%) burned, and 0.142 MMcf natural gas. The sulfur content in the No.4 fuel oil shall be limited to 0.54% and sulfur content in No.2 fuel oil shall be limited to 0.482%. Therefore, the requirements of 326 IAC 2-7, and 326 IAC 2-2 will not apply.

**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 these facilities and any control devices.

**Compliance Determination Requirements**

**D.1.9 Particulate Control**

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In order to comply with D.1.1, the cyclone and baghouse for particulate control shall be in operation and control particulate emissions from the aggregate dryer at all times that aggregate dryer is in operation.

**D.1.10 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]**

---

Compliance with the Conditions D.1.4 and D.1.7 shall be determined using 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 Btu heat input for combusting distillate fuel oil and one and six-tenths(1.6) pounds per million Btu heat input for combusting residual fuel oil by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification;

- (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; or
- (b) Compliance may also be determined by conducting stack tests for sulfur dioxide emissions from the 120.0 MMBTU per hour burner for the aggregate dryer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

#### **D.1.11 Testing Requirement**

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On or before September 1, 2007, the Permittee shall perform a stack test approved by IDEM/OAQ and VCAPC to demonstrate compliance with D.1.1 and D.1.2. Stack test shall include testing for PM and PM10 (filterable and condensable). The stack test methods shall be in accordance with the provisions of 326 IAC 3-2.1(Source Sampling Procedures).

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

#### **D.1.12 Visible Emissions Notations**

- 
- (a) Visible emission notations of the aggregate dryer stack conveyor and material transfer points exhaust shall be performed once per shift 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 and Implementation shall be considered a deviation from this permit.

#### **D.1.13 Parametric Monitoring for the Baghouse**

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The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer at least once per shift when the dryer is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 to 6.0 inches of water, the Permittee shall take reasonable response steps in accordance with Section C-Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the normal range 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, shall be considered a deviation from this permit.

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

#### D.1.14 Baghouse Inspection

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An inspection shall be performed each calendar quarter the baghouse controlling the aggregate dryer when venting to the atmosphere. Inspections required by this condition shall not be performed in consecutive months.

#### D.1.15 Broken or Failed Bag Detection

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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, and VCAPC 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).

### **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 Condition D.1.5, the Permittee shall maintain records in accordance with (1) through (2) below.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Natural Gas usage per month since last compliance determination period and equivalent NOx emissions;
- (b) To document compliance with Conditions D.1.4, D.1.7, and D.1.10, the Permittee shall maintain records in accordance with (1) through (5) below.
  - (1) Calendar dates covered in the compliance determination period;

- (2) Fuel oil # 4 usage per month since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

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

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.12, the Permittee shall maintain once per shift records of visible emission notations of the aggregate dryer stack conveyor and material transfer points exhaust.
- (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.
- (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.
- (f) To document compliance with Condition D.1.8, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.17 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.5 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 calendar quarter being reported.

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (d) Two (2) above ground horizontal storage tanks used for storing AC 20, identified as tanks 9 and 9B, each with a maximum capacity of 20,000 gallons, exhausting to stack SV3 and SV5, respectively.
- (e) One (1) above ground vertical storage tank used for storing AC 20, identified as tank 9A, with a maximum capacity of 20,000 gallons, exhausting to stack SV4.
- (f) One (1) above ground vertical storage tank used for storing fuel oil #4, identified as tank 10, with a maximum capacity of 14,000 gallons, exhausting to a vent.

(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 2-7-5(1)]

#### D.2.1 Volatile Organic Compounds (VOCs) [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

Pursuant to 40 CFR Part 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels), each storage tank, with a vapor pressure of less than 15.0 kPa, is subject to 40 CFR Part 60.116b, paragraphs (a), (b), and (d). 40 CFR Part 60.116b (a) and (b) requires record keeping and (d) requires notification if a volatile organic liquid is stored with a vapor pressure of 15.0 kPa or greater.

Any change or modification which may increase the capacity or maximum true vapor pressure of the liquid stored in the asphalt cement and asphalt storage tanks, shall obtain prior approval from the VCAPC and Office of Air Quality (OAQ).

#### 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 these facilities.

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

#### D.2.3 Record Keeping Requirements [326 IAC 12]

- (a) To document compliance with Condition D.2.1, the Permittee shall maintain permanent records at the source in accordance with (1) and (2) below:
  - (1) the dimension of the storage vessels; and
  - (2) an analysis showing the capacity of the storage vessels.
- (b) To document compliance with Condition D.2.2, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
and  
VIGO COUNTY AIR POLLUTION CONTROL**

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

Source Name: Wabash Valley Asphalt Company, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47807  
Mailing Address: P.O. Box 8297, Terre Haute, Indiana 47807  
FESOP No.: 167-17605-00114

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967  
and  
VIGO COUNTY AIR POLLUTION CONTROL  
103 South 3rd Street  
Terre Haute, IN 47807**

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

Source Name: Wabash Valley Asphalt Company, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808-8297  
Mailing Address: P.O. Box 8297, Terre Haute, Indiana 47805  
FESOP No.: 167-17605-00114

**This form consists of 2 pages**

**Page 1 of 2**

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
  - The Permittee must notify the VCAPC, within four (4) business hours (812-462-3433); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967 and 812-462-3447), 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  
and  
VIGO COUNTY AIR POLLUTION CONTROL**

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

Source Name: Wabash Valley Asphalt Company, LLC  
Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808-8297  
Mailing Address: P.O. Box 8297, Terre Haute, Indiana 47805  
FESOP No.: 167-17605-00114

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

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

<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.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION  
 And  
 VIGO COUNTY AIR POLLUTION CONTROL  
 FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808-8297  
 Mailing Address: P.O. Box 8297, Terre Haute, Indiana 47805  
 FESOP No.: 167-17605-00114  
 Facility: Aggregate dryer  
 Parameter: SO2 Emissions  
 Limit: The combined input of fuel oil #4 to the aggregate dryer burner and the heaters shall not exceed 2,227,300 gallons (2,227.3 kgal). For purposes of determining compliance, every gallon of No. 4 fuel oil (with sulfur content of 0.54%) burned is equivalent to 1.18 gallons of No. 2 fuel oil (with sulfur content of 0.482%) burned, and 0.142 MMcf natural gas.

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

Month	Fuel Oil #4 usage (kgal)	Fuel Oil #4 usage (kgal)	Fuel Oil #4 usage (kgal/yr)
	This Month	Previous 11 Months	12 Month Total

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR MANAGEMENT  
 COMPLIANCE DATA SECTION  
 And  
 VIGO COUNTY AIR POLLUTION CONTROL**

**FESOP Quarterly Report**

Source Name: Wabash Valley Asphalt Company, LLC  
 Source Address: 5600 East Margaret Avenue, Terre Haute, Indiana 47808-8297  
 Mailing Address: P.O. Box 8297, Terre Haute, Indiana 47805  
 FESOP No.: 167-17605-00114  
 Facility: Aggregate dryer  
 Parameter: NO<sub>x</sub> Emissions  
 Limit: The combined input of natural gas to the aggregate dryer and the heaters shall be limited to, 1057 MMCF (million cubic feet) per twelve (12) consecutive month period. For purposes of determining compliance, 1,000 gallons of No. 2 fuel oil is equivalent to 1,000 gallons of No. 4 fuel oil and 0.105 MMcf natural gas.

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

Month	Natural Gas (MMCF)	Natural Gas (MMCF)	Natural Gas (MMCF/yr)
	This Month	Previous 11 Months	12 Month Total

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

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

**Indiana Department of Environmental Management  
Office of Air Quality  
And  
Vigo County Air Pollution Control**

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit  
(FESOP) Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Wabash Valley Asphalt Company, LLC</b>
<b>Source Location:</b>	<b>5600 East Margaret Ave., Terre Haute, IN 47808</b>
<b>County:</b>	<b>Vigo</b>
<b>SIC Code:</b>	<b>2951</b>
<b>Operation Permit No.:</b>	<b>167-9883-00114</b>
<b>Operation Permit Issuance:</b>	<b>February 2, 1999</b>
<b>Permit Renewal No.:</b>	<b>167-17605-00114</b>
<b>Permit Reviewer:</b>	<b>Rob Harmon/KR</b>

The Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Vigo County Air Pollution Control (VCAPC) have reviewed a FESOP renewal application from Wabash Valley Asphalt Company, LLC relating to the operation of a stationary drum mix asphalt plant.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) natural gas fired aggregate dryer, with a maximum heat input capacity of 120 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as backup fuel, with a throughput capacity of 400 tons of aggregate per hour, exhausting through a cyclone and a baghouse to stack SV1. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (b) One (1) natural gas fired heater, with a maximum heat input capacity of 2.115 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV6, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (c) One (1) natural gas fired heater, with a maximum heat input capacity of 1.5 million Btu per hour (MMBtu/hr), using #2 and #4 fuel oil as a backup fuel, exhausting to stack SV2, and using no control. When using #2 fuel oil, the sulfur content is 0.482%, and when using #4 fuel oil the sulfur content is 0.54%.
- (d) Two (2) above ground horizontal storage tanks used for storing AC 20, identified as tanks 9 and 9B, each with a maximum capacity of 20,000 gallons, exhausting to stack SV3 and SV5, respectively.
- (e) One (1) above ground vertical storage tank used for storing AC 20, identified as tank 9A, with a maximum capacity of 20,000 gallons, exhausting to stack SV4.

- (f) One (1) above ground vertical storage tank used for storing fuel oil #4, identified as tank 10, with a maximum capacity of 14,000 gallons, exhausting to a vent.

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

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

### **Insignificant Activities**

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

- (a) The following VOC and HAP storage containers:
  - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (b) Application of oils, greases, lubricants, or other nonvolatile material applied as temporary protective coatings.
- (c) A laboratory as defined in 326 IAC 2-7-1(21)(D).

### **Existing Approvals**

The source has been operating under the previous FESOP 167-9883-00114 issued on February 2, 1999, with an expiration date of February 2, 2004, and the following amendments and revisions:

- (a) First Administrative Amendment 167-11246-00114, issued on August 18, 1999,
- (b) Significant Permit Revision 167-12010-00114, issued on July 27, 2000,
- (c) Second Administrative Amendment 167-13897-00114, issued on April 25, 2001,
- (d) Third Administrative Amendment 167-14425-00114, issued on June 21, 2001.
- (e) Permit Reopen 167-13114-00114, issued on October 9, 2001.

All conditions from previous approvals were incorporated into this FESOP, except the following, and with the addition of the following:

- (a) Condition D.1.1, Particulate Matter (326 IAC 6-3-2), has been replaced by Particulate Emissions Limitations (326 IAC 6-1-2). Vigo County is listed under 326 IAC 6-1-1, and pursuant to 326 IAC 6-3-1(c)(3), 326 IAC 6-3 does not apply if a particulate emission limitation is already established in 326 IAC 6-1, concerning nonattainment area particulate emissions.
- (b) Miscellaneous Operations: Asphalt Paving (326 IAC 8-5-2) has been added because this rule applies to any paving application located anywhere in the state, pursuant to 326 IAC 8-5-1 and 8-5-2(a).

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on April 11, 2003.

### Emission Calculations

See Appendix A of this document for detailed emission (six pages).

### Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	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 250
Lead	0.01

HAPs	Unrestricted Potential Emissions (tons/yr)
Acetaldehyde	2.28
Benzene	0.70
Ethylbenzene	0.42
Formaldehyde	5.43
Hexane	1.61
Toluene	5.08
Xylene	0.35
Total	15.87

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of pollutants are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

### Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1995 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	1.0
PM-10	1.0
SO <sub>2</sub>	0.0
VOC	2.0
CO	3.0
NO <sub>x</sub>	2.0

### Potential to Emit After Issuance

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

Process/emission unit	Potential To Emit (tons/year)							
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Lead	HAPs
Combustion	0.01	0.05	99.0	3.0	45.48	99.0	negligible	15.87
Aggregate Drying	8.32	1.93	negligible	negligible	negligible	negligible	0.006	negligible
Handling	8.17	0.82	negligible	negligible	negligible	negligible	negligible	negligible
Unpaved Roads	71.8	35.9	negligible	negligible	negligible	negligible	negligible	negligible
Storage	0.05	0.02	negligible	negligible	negligible	negligible	negligible	negligible
Tanks	negligible	negligible	negligible	0.01	negligible	negligible	0.000298	negligible
<b>Total Emissions</b>	<b>88.34</b>	<b>38.71</b>	<b>99.0</b>	<b>3.01</b>	<b>45.48</b>	<b>99.0</b>	<b>0.006</b>	<b>15.87</b>

### County Attainment Status

The source is located in Vigo County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	maintenance attainment
NO <sub>2</sub>	attainment
8-hour Ozone	basic nonattainment
1-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Vigo County has been designated as basic nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for nonattainment new source review (326 IAC 2-3).
- (b) Vigo County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (a) Fugitive Emissions  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no 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 not counted toward determination of PSD and Emission Offset applicability.

### Source Status

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

Pollutant	Emissions (tons/yr)
PM	88.34
PM-10	38.71
SO <sub>2</sub>	99.0
VOC	3.01
CO	45.48
NO <sub>x</sub>	99.0
Lead	0.006
Combination HAPs	15.87

- (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 greater and it is not in one of the 28 listed source categories.

### Federal Rule Applicability

- (a) The following New Source Performance Standards (NSPSs) (326 IAC 12 and 40 CFR 60) are applicable to this source:
- (1) The hot mix asphalt plant is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90, Subpart I), because this source meets the definition of a hot mix asphalt plant as described in 40 CFR 60.90(a), Subpart I and construction of the facility commenced in 1983, which is after June 11, 1973. The requirements of 40 CFR 60.90, Subpart I, limit particulate emissions from the asphalt plant to 0.040 grains per dry standard cubic foot (gr/dscf) and visible emissions to 20% opacity.
  - (2) Storage tanks 9, 9A, 9B and 10 at this source were constructed after July 23, 1984. Therefore, these tanks are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110a, Subpart Ka).
  - (3) Storage tanks 9, 9A, and 9B are not subject to the New Source Performance Standard, 40 CFR 60 Subpart Kb, because these storage tanks have capacities greater than 75 cubic meters (19,813 gallons) but less than 151 cubic meters (39,890 gallons) and are used to store liquids with a maximum vapor pressure of 2.2 psia (15kPa). Storage tank 10 is not subject to New Source Performance Standard, 40 CFR 60 Subpart Kb, because it has a capacity of less than 75 cubic meters (19,813 gallons).
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR 63) included in this permit.

### State Rule Applicability – Entire Source

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

This source, constructed in 1997, is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater after limits and controls, no nonattainment pollutant is emitted at a rate of 100 tons per year or greater, and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2 and 2-3, the PSD and Emission Offset requirements do not apply. At construction, the potential to emit of PM was greater than the 250

tons per year PSD threshold. The source agreed to limit the emissions of PM to less than the major source thresholds, FESOP 167-9883-00114. Pursuant to this agreement, emissions of PM from the aggregate dryer shall not exceed 0.00475 lbs per ton aggregate based on a maximum throughput of 400 tons of aggregate per hour. Pursuant to 326 IAC 2-8-4, the source has also agreed to limit PM-10 and SO<sub>2</sub> emissions to less than 100 tons/yr, hence also rendering 326 IAC 2-2 not applicable.

#### Nonattainment NSR

The state has initiated a rulemaking to adopt the federal 8-hour ozone nonattainment designation into 326 IAC 1-4. The applicability of the state nonattainment NSR program, 326 IAC 2-3 (Emission Offset), relies on the attainment designations in 326 IAC 1-4. Until the state rule has been updated, IDEM will rely on 326 IAC 2-1.1-5(a)(1) to apply minor limits to remain below the nonattainment NSR thresholds. 326 IAC 2-1.1-5(a)(1) clarifies that IDEM can not issue a permit or modification that will cause or contribute to a violation of the National Air Quality Standards (NAAQS). Vigo County has been designated as basic nonattainment for the 8-hour ozone standard. Therefore, the federally enforceable NO<sub>x</sub> emission limit of less than 100 tons per year to comply with 326 IAC 2-8-4 (FESOP) will also render nonattainment NSR not applicable under 326 IAC 2-1.1-5. Unrestricted potential to emit of VOCs is 3.01 tons/yr, this is less the major source thresholds for non-attainment NSR than (100 tons/yr), therefore nonattainment NSR is not applicable.

#### 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants)

This source is not subject to 326 IAC 2-4.1, because it has not constructed a major source of hazardous air pollutants, as defined in 40 CFR 63 after July 27, 1997.

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

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it is located in Vigo County, it is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, and it does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year.

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

Pursuant to this rule, source wide emissions of PM-10, SO<sub>2</sub>, and NO<sub>x</sub> shall be limited to less than one hundred (100) tons per year such that it does not fall within any of the categories listed in 326 IAC 2-7-2(a) and that assure compliance with all applicable requirements at the time of FESOP issuance (see Emissions Calculations, Appendix A). The potential to emit PM-10, SO<sub>2</sub>, and NO<sub>x</sub> before limitations from the entire source is greater than 100 tons/yr and with the FESOP is limited to less than 100 tons/yr. The following limit shall apply to assure compliance with this rule:

Particulate Matter-10 (PM-10): At any time the aggregate dryer is in operation, the baghouse and cyclone must be used as particulate control. The potential to emit of PM-10 from the aggregate dryer shall not exceed 0.0011 pounds per ton of aggregate based on a maximum throughput of 400 tons of aggregate per hour or 3,504,000 tons of aggregate per year.

Sulfur Dioxide (SO<sub>2</sub>): Usage of fuel oil No. 4 shall be limited to 2227.3 kgal per twelve (12) consecutive month period. The sulfur content of the fuel oil burned shall be limited to 0.54%. This limit, when combined with the SO<sub>2</sub> emissions from other operations, shall limit the source-wide potential to emit SO<sub>2</sub> to less than 100 tons per year. For purposes of determining compliance, every gallon of No. 4 fuel oil (with sulfur content of 0.54%) burned is equivalent to 1.18 gallons of No. 2 fuel oil (with sulfur content of 0.482%) burned, and 0.142 MMcf natural gas.

Oxides of Nitrogen (NO<sub>x</sub>): Usage of natural gas shall be limited to 1057 MMcf per twelve (12) consecutive month period. This limit, when combined with the NO<sub>x</sub> emissions from other operations, shall limit the source-wide potential to emit NO<sub>x</sub> to less than 100 tons per

year. For purposes of determining compliance, 1,000 gallons of No. 2 fuel oil is equivalent to 1,000 gallons of No. 4 fuel oil and 0.105 MMcf natural gas.

Any change or modification which adds the use of cutback asphalt shall require prior approval from IDEM, OAQ and VCAPC.

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

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

#### 326 IAC 6-1-2 (Particulate Emissions Limitations)

The particulate matter emissions from the aggregate storage, handling, and drying operations are subject to the requirements of 325 IAC 6-1-2(a) (Particulate Emissions Limitations) because this source is located in Vigo County, has potential particulate emissions greater than one hundred (100) tons per year. Pursuant to 326 IAC 6-1-2(a), the particulate emissions from the asphalt plant shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf). The source complies with this limit through the use of a baghouse and cyclone.

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

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

#### 326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This rule requires a fugitive dust plan to be submitted. The plan was submitted, reviewed, and approved.

### **State Rule Applicability – Individual Facilities**

#### 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

- (a) The aggregate dryer is subject to the requirements of 326 IAC 7-1.1 because the potential emissions of sulfur dioxide are greater than 25 tons per year. Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> emissions from the dryer shall not exceed 0.5 pounds per million Btu when burning distillate oil and 1.6 pounds per million Btu heat input when burning residual oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average. The source is required to submit records of the sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates, when requested by IDEM, OAQ, and VCAPC.
- (b) None of the other facilities at this source are subject to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitation), because they have potentials to emit of less than 25 tons per year and 10 pounds per hour sulfur dioxides.

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

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating:
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

**326 IAC 12 (New Source Performance Standards)**

The tanks identified as 9, 9A, 9B and 10 are subject to the recordkeeping requirements of 326 IAC 12, 40 CFR 60, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984) as the rule existed prior to October 2003 because these tanks have storage capacities greater than 40 cubic meters (10,566 gallons).

- (a) Pursuant to 326 IAC 12, and §60.110b (c) as written before October 2003, these tanks are not subject to the General Provisions (part 60, subpart A) because they have capacities greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure less than 15.0 kPa.
- (b) Although EPA revised the applicability criteria for 40 CFR 60, Subpart Kb in October 2003, the previous version of 40 CFR 60, Subpart Kb is still applicable to sources in Indiana pursuant to 326 IAC 12 and 326 IAC 1-1-3. Once the revised version of 40 CFR 60, Subpart Kb is incorporated into the Indiana Administrative Code, the storage tanks 9, 9A, and 9B will no longer be subject to the record keeping requirements in 40 CFR 60.116b(a) and (b) because these storage tanks have capacities greater than 75 cubic meters (19,813 gallons) but less than 151 cubic meters (39,890 gallons) and are used to store liquids with a maximum vapor pressure of 2.2 psia, and storage tank 10 will no longer be subject to the record keeping requirements in 40 CFR 60.116b(a) and (b) because it has a capacity less than 75 cubic meters (19,813 gallons).

## **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, and VCAPC, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

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

The compliance monitoring requirements applicable to this source are as follows:

1. The asphalt plant has applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the dryer stack, conveyor, and material transfer points exhaust shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting start up or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emissions is observed.
- (b) The Permittee shall record the total static pressure drop across the baghouse controlling the dryer, at least once per shift when the dryer is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range 3.0 to 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range of any one reading.
- (c) An inspection shall be performed within the last month of each calendar quarter of the baghouse and of all bags controlling the aggregate dryer. All defected bags shall be replaced.
- (d) In the event that bag failure has been observed the following provisions shall be followed. For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency. 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. 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 determined by other means, 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.

These monitoring conditions are necessary because the baghouse and cyclone used to control particulate emissions from the aggregate dryer must operate properly to ensure compliance with 326 IAC 6-1 (Particulate Emissions Limitations), 326 IAC 2-8 (FESOP Limitations), 40 CFR 60, Subpart I (326 IAC 12), and 326 IAC 2-2 (Prevention of Significant Deterioration).

## Conclusion

The operation of this stationary asphalt plant shall be subject to the conditions of the FESOP 167-17605-00114.

**Indiana Department of Environmental Management  
Office of Air Quality  
And  
Vigo County Air Pollution Control**

Addendum to the Technical Support Document  
for a FESOP Renewal

<b>Source Name:</b>	<b>Wabash Valley Asphalt Company, LLC</b>
<b>Source Location:</b>	<b>5600 East Margaret Avenue, Terre Haute, Indiana 47808</b>
<b>County:</b>	<b>Vigo County</b>
<b>SIC Code:</b>	<b>2951</b>
<b>Operation Permit No.:</b>	<b>167-9883-00114</b>
<b>Operation Permit Issuance Date:</b>	<b>February 2, 1999</b>
<b>Permit Renewal No.:</b>	<b>167-17605-00114</b>
<b>Permit Reviewer:</b>	<b>Rob Harmon</b>

On February 19, 2005, Vigo County Air Pollution Control (VCAPC) had a notice published in the Terre Haute Tribune-Star, Terre Haute, Indiana, stating that Wabash Valley Asphalt Company, LLC had applied for a renewal of their FESOP. The notice also stated that VCAPC proposed to issue a permit for this operation and provided information on how the public could review the proposed permit 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 permit should be issued as proposed.

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 reflecting this rule will be revised in your permit as follows:

~~B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314]~~

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

B.23 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.

**Appendix A Emissions Calculations**

**Source Name:** Wabash Valley Asphalt Company, LLC  
**Source Location:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**County:** Vigo  
**Permit No.:** F167-17605-00114  
**Permit Reviewer:** Rob Harmon/KR  
**Date:** August 16, 2004

**Natural Gas**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr				
Heater 1 2.115					
Heater 2 1.5					
<b>3.6</b>	<b>31.7</b>				
Emission Factor in lb/MMCF	PM 7.6	SO2 0.6	NOx <b>100.0</b> **see below	VOC 5.5	CO 84.0
Potential Emission in tons/yr	0.1	0.0	1.6	0.1	1.3

\*\*Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32  
 The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 3. The emissions of SO<sub>2</sub>, NOx, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

**Methodology**

All emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF = 1,000,000 Cubic Feet of Gas  
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)  
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Fuel Oil #2**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur <b>0.482</b>			
Heater 1 2.115					
Heater 2 1.5					
<b>3.6</b>	<b>226.2</b>				
Emission Factor in lb/kgal	Pollutant				
	PM 2.0	SO2 68.4 (142.0 S)	NOx 20.0	VOC 0.34	CO 5.0
Potential Emission in tons/yr	0.2	7.7	2.3	0.0	0.6

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu  
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu  
 Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 ( SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)  
 Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Fuel Oil #4**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur <b>0.54</b>			
Heater 1 2.115					
Heater 2 1.5					
<b>3.62</b>	<b>216.9</b>				
Emission Factor in lb/kgal	Pollutant				
	PM 7	SO2 81 (150S)	NOx 20.0	VOC 0.20	CO 5.0
Potential Emission in tons/yr	0.8	8.8	2.2	0.0	0.5

**Methodology**

1 gallon of #4 Fuel oil has a heating value of 146,000 Btu  
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal per 1000 gallon x 1 gal per 0.146 MMBtu  
 Emission Factors are from AP 42 Tables 1.3-1, 1.3-2 and 1.3-3 (SCC 1-03-004-02/03, 1-02-004-02/03, and 1-03-004-04) (AP-42 Supplement E 9/98)  
 Emission (tons/yr) = Throughput (kgals/year) x Emission Factor (lb/kgal)/2,000 lb/ton



**Company Name:** Wabash Valley Asphalt Company, LLC.  
**Street Address:** 5600 East Margaret Avenue, Terre Haute IN 47808  
**County:** Vigo County  
**Permit Revision No :** 167-17605-00114  
**Reviewer:** Rob Harmon/KR

Heat Input Capacity:	120	MMBtu/hr
Heating Value of No.4 Distillate Oil:	0.146	MMBtu/gallon
Heating Value of Natural Gas:	1,000	Btu/Cubic Foot
Heating Value of No.2 Distillate Oil:	0.140	MMBtu/gallon

<b>"SO<sub>2</sub>" Limit</b>	
<b>No.4 Oil Limited Firing</b>	
(pollutant)	(tons/yr)
SO <sub>2</sub>	90.2
NO <sub>x</sub>	22.3
VOC	0.2
CO	5.6

**Dryer Burner SO<sub>2</sub> Limit:**

FESOP Limit: 99 tons per year SO<sub>2</sub>  
 - Other Facilities: 8.8 tons per year SO<sub>2</sub>  
 NO<sub>x</sub> Limit: 90.2 tons per year SO<sub>2</sub>

Annual Fuel Consumption: 7200.00 kgal/yr

No.4 Distillate Oil ("SO<sub>2</sub>") Usage Limit: 2227.16 kgal/yr

**Alternate Fuel Limits as No.4 Oil Equivalent: SO<sub>2</sub>**

Fuel	SO <sub>2</sub> Emission Factor	Limit (Kgal/Fuel)
Natural Gas	0.6 lb/MMCF	0.007 Kgal No. 4/MMCF
No. 4 Distillate Oil	81 lb/Kgal	1.000 Kgal No.4/ Kgal #No.4
No.2 Distillate Oil	68.44 lb/Kgal	0.845 Kgal No. 4/Kgal # No.2

**Methodology**

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Throughput (MMBtu/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr

Emissions (tons/yr) = Throughput (MMBtu/yr) \* Emission Factor (lb/kgal) x Heat Value Oil (gal/MMBtu)/2000lb/ton

The emissions of PM and PM<sub>10</sub> from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 3. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

<b>POTENTIAL EMISSIONS PER FUEL</b>				
<b>Natural Gas:</b>				
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/MMCF	0.60	190.00	5.50	84.00
Potential Emission in tons/yr	0.3	99.9	2.9	44.2
<b>No. 4 Oil:</b>				
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/kgal	81.00	20.00	0.20	5.00
Potential Emission in tons/yr	291.6	72.0	0.7	18.0
<b>No. 2 Distillate Oil:</b>				
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/kgal	68.44	20.00	0.34	5.00
Potential Emission in tons/yr	257.0	75.1	1.3	18.8

**Company Name:** Wabash Valley Asphalt Company, LLC.

**Street Address:** 5600 East Margaret Avenue, Terre Haute IN 47808

**County:** Vigo

**FESOP Renewal No :** 167-17605-00114

**Reviewer:** Rob Harmon/KR

<b>Heat Input Capacity:</b>	120	MMBtu/hr
<b>Heating Value of No.4 Distillate Oil:</b>	0.146	MMBtu/gallon
<b>Heating Value of Natural Gas:</b>	1,000	Btu/Cubic Foot
<b>Heating Value of No.2 Distillate Oil</b>	0.140	MMBtu/gallon

<b>"NOX" Limit</b>	
<b>Natural Gas Limited Firing</b>	
(pollutant)	(tons/yr)
SO2	0.3
NOx	97.4
VOC	2.8
CO	43.1

<b>Dryer Burner NOX Limit:</b>	
FESOP Limit:	99 tons per year NOX
- Other Facilities:	1.6 tons per year NOX
NOx Limit:	97.4 tons per year NOX
<i>Annual Fuel Consumption:</i>	1051.20 MMCF/yr
<b>Natural Gas ("NOX") Usage Limit:</b>	1025.26 MMCF/yr

<b>Alternate Fuel Limits as Natural Gas Equivalent: NOX</b>		
Fuel	NOX Emission Factor	Limit (MMCF/Fuel)
Natural Gas	190 lb/MMCF	1.000 MMCF/MMCF
No. 4 Distillate Oil	20 lb/Kgal	0.105 MMCF/ Kgal #No.4
No.2 Distillate Oil	20 lb/Kgal	0.105 MMCF/Kgal #No.2

<b>POTENTIAL EMISSIONS PER FUEL</b>				
<b>Natural Gas:</b>				
	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	0.60	190.00	5.50	84.00
Potential Emission in tons/yr	0.3	99.9	2.9	44.2
<b>No. 4 Distillate Oil:</b>				
	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	81.00	20.00	0.20	5.00
Potential Emission in tons/yr	291.6	72.0	0.7	18.0
<b>No.2 Distillate Oil:</b>				
	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	68.44	20.00	0.34	5.00
Potential Emission in tons/yr	257.0	75.1	1.3	18.8

**Methodology**

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Throughput(MMBtu/yr)=Heat Input Capacity (MMBtu/hr) \* 8760 hrs/yr

Emissions (tons/yr) = Emission Factor (lb/MMCF) x Annual Fuel Consumption (MMCF/yr) / 2,000 lb/ton

Natural Gas Usage Limit (MMCF/yr) = Dryer Burner NOX Limit (tons/yr) x Annual Fuel Consumption (MMCF/yr) / NOX Potential Emissions (tons/yr)

Natural Gas Limited Firing (tons/yr) = Usage Limit (MMCF/yr) x Emission Factor (lb/MMCF) / 2,000 lb/ton

Alternate Fuel Limits (MMCF Natural Gas /Fuel) = Fuel Emission Factor (lb/Kgal)/ Natural Gas Emission Factor (lb/MMCF)

The emissions of PM and PM10 from the Rotary Dryer are estimated using the AP-42 Chapter 11.1 emission factors for asphalt plants, and are shown on page 3. The emissions of SO<sub>2</sub>, NOx, VOC and CO are estimated using the boiler emission factors from AP-42 Chapter 1.4, as shown above. These boiler emission factors are being used for these pollutants based on IDEM guidance.

**Appendix A Emissions Calculations**

**Source Name:** Wabash Valley Asphalt Company, LLC  
**Source Location:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**County:** Vigo  
**Permit No.:** F167-17605-00114  
**Permit Reviewer:** Rob Harmon/KR  
**Date:** August 16, 2004

**PM and HAPs**

Maximum Capacity	
400	tons/hr

Pollutant	Emission Factor (lb/ton)*	Uncontrolled Emissions (tons/yr)	Baghouse Control Efficiency	Cyclone Control Efficiency	Controlled Emissions (tons/yr)
<b>PM</b>	0.015	26.3	99.90%	75%	0.00657
<b>PM-10</b>	0.107	187.5	99.90%	75%	0.046866
Acetaldehyde	0.0013	2.2776			2.2776
Benzene	0.0004	0.7008			0.7008
ethylbenzene	0.00024	0.42048			0.42048
formaldehyde	0.0031	5.4312			5.4312
hexane	0.00092	1.61184			1.61184
toluene	0.0029	5.0808			5.0808
xylene	0.0002	0.3504			0.3504
<b>total HAPs</b>		<b>15.87</b>			<b>15.87312</b>

Methodology: (Maximum capacity)\*(8760 hr/yr)\*(emission factor)\*(1 ton/2000 lbs)  
 Emission factor are from AP-42 Chapter 11.1, Table 11.1-3 and Table 11.1-10.

\* Greatest Emission Factor out of Natural gas fired and fuel-oil fired.

**Appendix A Emissions Calculations**

**Source Name:** Wabash Valley Asphalt Company, LLC  
**Source Location:** 5600 East Margaret Avenue, Terre Haute, Indiana 47808  
**County:** Vigo  
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**Date:** August 16, 2004

**\*aggregate handling\***

The following calculations determine the amount of emissions created by dropping of material, based on 8760 hours of use and AP-42, Ch11.2.3.

throughput = 400 ton/hr

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

= 0.0093 lb/ton

where k= 1 (particle size multiplier)  
 U= 12 mile/hr mean wind speed  
 M= 2.1 % material moisture content

$$PM = (E_f \times \text{throughput} \times 8760 \text{ hr/yr}) / 2000 \text{ lb/ton}$$

= **16.3415661 tons PM/yr**

PM-10 = 10% PM = **1.63415661 tons PM-10/yr**

After 50% control: PM = **8.17078306 tons PM/yr**  
 PM-10 = **0.81707831 tons PM-10/yr**

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

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 13.2.2.2. Vehicle Traffic

40 trip/hr x  
 0.16 mile/trip x  
 0.32 (round trip) x  
 8,760 hr/yr = 112128 miles per year

$$E_f = k \cdot 5.9 \cdot (s/12) \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365)$$

= 2.56 lb/mile

where k = 0.8 (particle size multiplier)  
 s = 3.6 % silt content of unpaved roads  
 p = 125 days of rain greater than or equal to 0.01 inches  
 S = 10 miles/hr vehicle speed  
 W = 25.00 tons average vehicle weight  
 w = 14 wheels

	2.56 lb/mi x	112128 mi/yr =	
	2000 lb/ton		<b>143.60 tons/yr</b>
PM-10:	35% of PM =		<b>50.26 tons/yr</b>
		After 50% control: PM =	<b>71.80 tons/yr</b>
		PM-10 =	<b>35.90 tons/yr</b>

**\*aggregate drying: batch mix plant\***

throughput = 3504000 tons/yr

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and AP-42, Ch11.1-2 table.

From table, Ef are as follows:

PM= 19 lbs/ton  
 PM-10= 4.4 lbs/ton  
 Lead= 3.30E-06 lbs/ton

PM = Ef x throughput x tons/2000 lbs = **33288 tons PM /yr**  
 PM -10 = Ef x throughput x tons/2000 lbs = **7708.8 tons PM-10/yr**  
 Lead = Ef x throughput x tons/2000 lbs = **5.78E-03 tons Lead/yr**

PM after 75% control from cyclone and 99.9% control from baghouse=  
PM-10 after 75% control from cyclone and 99.9% control from baghouse=

8.322 **tons PM /yr**  
1.9272 **tons PM-10/yr**

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**\*\* 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.

Sample Calculation:  $E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$

**Stone**

Storage emissions, which result from wind erosion, are determined by the following calculations:

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

$$= 1.39$$

where s= 1.2 % silt content of material  
 p= 125 days of rain greater than or equal to 0.01 inches per year  
 f= 15 % of wind greater than or equal to 12 mph

$$\text{PM emissions (tons/yr)} = E_f \cdot sc \cdot (20 \text{ ft}^3/\text{ton}) / (2000 \text{ lb/ton}) / (43560 \text{ ft}^2/\text{acre}) / (25 \text{ ft}) \cdot (365 \text{ days/yr})$$

where sc= 11000 tons storage capacity  
 = **0.051208 tons PM per year**  
 PM-10 = 35% PM = **0.017923 tons PM-10 per year**

**Gravel**

Storage emissions, which result from wind erosion, are determined by the following calculations:

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

$$= 1.16$$

where s= 1 % silt content of material  
 p= 125 days of rain greater than or equal to 0.01 inches per year  
 f= 15 % of wind greater than or equal to 12 mph

$$\text{PM emissions (tons/yr)} = E_f \cdot sc \cdot (20 \text{ ft}^3/\text{ton}) / (2000 \text{ lb/ton}) / (43560 \text{ ft}^2/\text{acre}) / (25 \text{ ft}) \cdot (365 \text{ days/yr})$$

where sc= 3000 tons storage capacity  
 = **0.011638 tons PM per year**  
 PM-10 = 35% PM = **0.004073 tons PM-10 per year**

**Sand**

Storage emissions, which result from wind erosion, are determined by the following calculations:

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

$$= 1.27$$

where s= 1.1 % silt content of material  
 p= 125 days of rain greater than or equal to 0.01 inches per year  
 f= 15 % of wind greater than or equal to 12 mph

$$\text{PM emissions (tons/yr)} = E_f \cdot sc \cdot (20 \text{ ft}^3/\text{ton}) / (2000 \text{ lb/ton}) / (43560 \text{ ft}^2/\text{acre}) / (25 \text{ ft}) \cdot (365 \text{ days/yr})$$

where sc= 8000 tons storage capacity  
 = **0.034139 tons PM per year**  
 PM-10 = 35% PM = **0.011949 tons PM-10 per year**

**RAP**

Storage emissions, which result from wind erosion, are determined by the following calculations:

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

$$= 0.93$$

where s= 0.8 % silt content of material  
 p= 125 days of rain greater than or equal to 0.01 inches per year  
 f= 15 % of wind greater than or equal to 12 mph

$$\text{PM emissions (tons/yr)} = E_f \cdot sc \cdot (20 \text{ ft}^3/\text{ton}) / (2000 \text{ lb/ton}) / (43560 \text{ ft}^2/\text{acre}) / (25 \text{ ft}) \cdot (365 \text{ days/yr})$$

where sc= 11000 tons storage capacity  
 = **0.034139 tons PM per year**  
 PM-10 = 35% PM = **0.011949 tons PM-10 per year**

**Total PM= 0.091554 tons/yr**  
**Total PM-10= 0.032044 tons/yr**

After 50% control:

**Total PM= 0.045777 tons/yr**  
**Total PM-10= 0.016022 tons/yr**

**Source Name:** Wabash Valley Asphalt Company, LLC  
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**Date:** August 16, 2004

**Potential Emissions (tons/yr)**

Pollutant	Combustion	Aggregate Drying	Handling	Unpaved Roads	Storage	Tanks	Total
PM	27.03915	33288	16.34	143.60	0.09		33475.07133
PM-10	188.22315	7708.8	1.63	50.26	0.03		7948.949023
SO2	300.40						300.4
Nox	101.50						101.50
VOC	3.0					0.01	3.01
CO	45.4						45.40
Lead		5.78E-03					0.01
Acetaldehyde	2.28						2.28
Benzene	0.70						0.70
ethylbenzene	0.42						0.42
formaldehyde	5.43						5.43
hexane	1.61						1.61
toluene	5.08						5.08
xylene	0.35						0.35
total HAPs	15.87						15.87

**Limited/ Controlled Potential Emissions (tons/yr)**

Pollutant	Combustion	Aggregate Drying	Handling	Unpaved Roads	Storage	Tanks	Total
PM	0.01	8.32	8.17	71.80	0.05		88.34
PM-10	0.05	1.93	0.82	35.90	0.02		38.71
SO2	99.00						99.00
Nox	99.00						99.00
VOC	3.0					0.01	3.01
CO	45.40						45.40
Lead		5.78E-03					0.01
Acetaldehyde	2.28						2.28
Benzene	0.70						0.70
ethylbenzene	0.42						0.42
formaldehyde	5.43						5.43
hexane	1.61						1.61
toluene	5.08						5.08
xylene	0.35						0.35
total HAPs	15.87						15.87

\* Calculated using Tanks 4.0.