



Joseph E. Kernan  
Governor

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Commissioner

July 14, 2004

100 North Senate Avenue  
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Indianapolis, Indiana 46206-6015  
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(800) 451-6027  
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Brooks Construction / 039-17738-03325

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER.dot 9/16/03



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## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**Brooks Construction Company, Inc.  
18130 U.S. Highway 20  
Goshen, Indiana 46526  
(Portable)**

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

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

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.: F039-17738-03325	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: July 14, 2004  Expiration Date: July 14, 2009

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 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 portable hot mix asphalt plant.

Authorized Individual:	Plant Operations Superintendent
Source Address:	18130 U.S. Highway 20, Goshen, Indiana, 46526
Mailing Address:	P.O. Box 9560, Fort Wayne, Indiana, 46899
General Source Phone:	(260) 478-1990
SIC Code:	2951
Initial County Location:	Elkhart
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD 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 portable source consists of the following emission units and pollution control devices:

- (a) One (1) aggregate drum mix dryer, constructed after June 11, 1973, identified as Emissions Unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) 84 MMBtu/hr natural gas-fired burner, using No. 2 distillate fuel oil as a back-up fuel, controlled by one (1) baghouse with a knockout box, exhausting to Stack SV1.
- (b) One (1) drag slat conveyor.
- (c) Three (3) feeder conveyors.
- (d) One (1) screen.
- (e) Cold-mix (emulsified) asphalt storage piles, containing emulsified asphalt with 1.5% oil distillate by volume.

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

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

- (a) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight, including one (1) No. 2 distillate fuel oil-fired hot oil heater, identified as Emission Unit No. 10, with a maximum heat input rate of 1.4 million Btu per hour, using natural gas as back-up fuel, and exhausting at Stack SV2.
- (b) A laboratory as described in 326 IAC 2-7-1(20)(C), including one (1) testing lab trailer.
- (c) Paved and unpaved roads and parking lots with public access.

- (d) Storage tanks with volatile organic compound emissions equal to or less than 3 pounds per hour and 15 pounds per day, and HAP emissions equal to or less than 5 pounds per day and 1 ton per year of a single HAP and 12.5 pounds per day and 2.5 ton per year of any combination of HAPs, including:
  - (1) Two (2) liquid asphalt storage tanks, constructed after July 23, 1984, identified as Tank No. 11 and T12 each with a maximum storage capacity of 20,000 gallons, exhausting at Stacks SV3 and SV4.
  - (2) One (1) No. 2 distillate fuel oil storage tank, constructed before July 23, 1984, identified as Tank No. 12, with a maximum storage capacity of 8,000 gallons, exhausting at Stack SV4.
  - (3) One (1) hot mix asphalt cement storage silo, constructed before July 23, 1984, with a maximum storage capacity of 300 tons.
- (e) Processing and storage units with particulate matter emissions equal to or less than 5 pounds per hour and 25 pounds per day, including the following units:
  - (1) One (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 100 tons.
  - (2) One (1) RAP feed bin with a capacity of 25 tons.
  - (3) Aggregate storage piles, with a maximum storage capacity of 36,000 tons.

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

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

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

- (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]**

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]**

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]**

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]**

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

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

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)]**

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)]**

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)]**

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

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

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

B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

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

- (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 April 15 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

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

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

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) 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, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP 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 Northwest Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM, OAQ:

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

Northwest Regional Office:  
Telephone No.: 1-888-209-8892 or 219-881-6712  
Facsimile No.: 219-881-6745

- (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

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, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
  - (g) Operations may continue during an emergency only if the following conditions are met:
    - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
    - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

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

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

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

B.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

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 independently of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by 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 IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
  - (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

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

B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

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

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

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

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]

- (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

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, 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.

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

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

B.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]

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

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

B.21 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

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 (BLT))), to determine the appropriate permit fee.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P][326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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

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

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

#### C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9.

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on March 11, 1996 and included as Attachment A.

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

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

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

- (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

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 be accredited is not federally enforceable.

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

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

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

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

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

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

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

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

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

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

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

#### **C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented 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.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

#### **C.14 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 ( $\pm 2\%$ ) of full scale reading.
- (b) The Permittee may request the IDEM, OAQ 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.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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

#### **C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]**

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe 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 or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) 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 Operation, Maintenance and Monitoring (OMM) Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.

- (c) The Permittee is not required to take any further response steps for any of the following reasons:
  - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]

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- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

### **C.18 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 Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

### **C.19 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 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

## **Portable Source Requirement**

### **C.20 Relocation of Portable Sources [326 IAC 2-14-4]**

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.

- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
  - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
  - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

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

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

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) aggregate drum mix dryer, constructed after June 11, 1973, identified as Emissions Unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) 84 MMBtu/hr natural gas-fired burner, using No. 2 distillate fuel oil as a back-up fuel, controlled by one (1) baghouse with a knockout box, and exhausting to Stack SV1.
- (b) One (1) drag slat conveyor.
- (c) Three (3) feeder conveyors.
- (d) One (1) screen; and
- (e) Cold-mix (emulsified) asphalt storage piles containing emulsified asphalt with 1.5% oil distillate by volume.

(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 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

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

#### D.1.2 Particulate Matter (PM) [40 CFR 60, Subpart I] [326 IAC 12-1]

Pursuant to 40 CFR 60, Subpart I:

- (a) particulate matter emissions from the asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), and
- (b) the visible emissions from the plant shall not exceed 20 percent opacity.

#### D.1.3 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 2-2]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). This is equivalent to 10.72 pounds per hour, which is equivalent to 46.94 tons per year at a flow rate of 41,678 acfm. Compliance with this requirement ensures compliance with Condition D.1.2 and makes 326 IAC 2-2 (PSD) not applicable.

#### D.1.4 Particulate Matter 10 Micron (PM<sub>10</sub>) [326 IAC 2-8-4][326 IAC 2-2] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns (PM<sub>10</sub>) emissions from the aggregate mixer dryer shall not exceed 0.074 pounds of PM<sub>10</sub> per ton of asphalt produced when operating at a maximum process rate of 300 tons of asphalt per hour. This is equivalent to 97.2 tons of PM<sub>10</sub> per year. Compliance with this limit makes the Part 70 rules (326 IAC 2-7), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.

#### D.1.5 Volatile Organic Compound (VOC) [326 IAC 8-5-2]

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

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

D.1.6 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> emissions from the aggregate dryer burner and oil heater at the asphalt plant shall not exceed five-tenths (0.5) pound per million Btu heat input while combusting fuel oil. This is equivalent to a maximum fuel oil sulfur content of five one-hundredths percent (0.5%) while combusting No. 2 fuel oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.7 FESOP Limits for SO<sub>2</sub> and VOC [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-3]

- (a) The total input of No. 2 fuel oil to the 84 million Btu burner to the aggregate drum mix dryer shall be limited to less than 2,781,600 U.S. gallons per twelve (12) consecutive month period and the maximum sulfur content of the fuel oil shall be limited to less than or equal to 0.5% by weight, with compliance determined at the end of each month. These limits will limit the SO<sub>2</sub> emissions from the aggregate drum mix dryer to less than 96.8 tons per twelve (12) consecutive month period. Compliance with this condition makes 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (b) The VOC emissions from any liquid binder used in asphalt production shall not exceed 96.95 tons per year. The liquid binder used in asphalt production shall be limited as follows:
  - (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 102.1 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 95% volatilization)
  - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 138.5 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 70% volatilization)
  - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 387.8 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 25% volatilization)
  - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 197.9 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 49% volatilization)
  - (5) Emulsified asphalt with fuel oil liquid binder usage shall not exceed 1385 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. The fuel oil diluent shall be limited to 1.5% of the total weight of the emulsified asphalt mix. (Based on 7% volatilization)
  - (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder (or for a type of binder not listed above), the Permittee shall use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed

in the table that follows. [The adjustment ratio is equal to 1/(percent of initial VOC in solvent that volatilizes or is emitted from the final product)]

Tons of solvent contained in binder/ Adjustment ratio = tons of VOC emitted

or

Tons of solvent contained in binder x Percent volatilization = tons of VOC emitted

Type of binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure (95% volatilization)		1.05	
Cutback Asphalt Medium Cure (70% volatilization)		1.42	
Cutback Asphalt Slow Cure (25% volatilization)		4.00	
Emulsified Asphalt (49% volatilization)		2.04	
Emulsified Asphalt (7% volatilization)		14.28	

The equivalent total tons of VOC emitted from the combined liquid binders shall be less than 96.95 tons per twelve consecutive month period with compliance determined at the end of each month.

Compliance with this condition makes 326 IAC 2-7 (Part 70), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.

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

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

**Compliance Determination Requirements**

**D.1.9 Particulate Emissions Control**

In order to comply with Conditions D.1.2, D.1.3 and D.1.4, the the knock-out box and baghouse controlling emissions from the aggregate drum mix dryer and the dryer burner shall be in operation at all times that the aggregate drum mix dryer and/or the dryer burner at this asphalt plant are in operation.

**D.1.10 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

In order to demonstrate compliance with Conditions D.1.3 and D.1.4, the Permittee shall perform PM and PM10 testing before October 15, 2004 utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

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

Compliance with Conditions D.1.6 and D.1.7(a) shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 84 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 any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### D.1.12 VOC Emissions

Compliance with Condition D.1.7(b) shall be demonstrated each month based on the amount of fuel oil diluent used in the production of cold mix emulsified asphalt for the 365 day consecutive period.

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

#### D.1.13 Visible Emissions Notations

- (a) Visible emission notations of the burner stack, the aggregate drum mixer, the transfer points, and the conveyor exhausts shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

#### D.1.14 Parametric Monitoring

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- (a) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer burner at least once per shift when the aggregate dryer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.
- (b) 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 local agency if applicable), and shall be calibrated at least once every six (6) months.

#### D.1.15 Baghouse Inspections

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An inspection shall be performed each calendar quarter of all bags controlling the aggregate drum mix dryer. The inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

#### D.1.16 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 ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
- (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.1.17 Record Keeping Requirements**

- (a) To document compliance with Condition D.1.13, the Permittee shall maintain records of visible emission notations of the aggregate mixer dryer and dryer burner baghouse stack, the transfer points, and the conveyor exhausts once per shift.
- (b) To document compliance with Condition D.1.14, the Permittee shall maintain records of the pressure drop during normal operation.
- (c) To document compliance with Condition D.1.15, the Permittee shall maintain records of the results of the inspections required under Condition D.1.15.
- (d) To document compliance with Condition D.1.6 and D.1.7(a), the Permittee shall maintain records in accordance with (1) through (8) below. Records maintained for (1) through (8) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Conditions D.1.6 and D.1.7(a).
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual No. 2 oil usage per month since the last compliance determination period;
  - (3) Average heating value of the No. 2 oil;
  - (4) Average sulfur dioxide (SO<sub>2</sub>) emission rate (pounds per million Btu);
  - (5) 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:
    - (6) Fuel supplier certifications;
    - (7) The name of the fuel supplier; and
    - (8) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

- (e) To document compliance with Condition D.1.7(b), the Permittee shall maintain records at the facility of the amount of fuel oil diluent used in the production of cold mix emulsified asphalt each month. The records shall be complete and sufficient to establish compliance with the VOC usage limit set in Condition D.1.7(b) of this permit. The records shall contain a minimum of the following:
  - (1) Amount of cold-mix (emulsified) asphalt produced each month and for the past twelve (12) months.

- (2) Amount and type of emulsion used in the production of cold mix emulsified asphalt each month;
- (3) The percent fuel oil used in the emulsion;
- (4) The VOC solvent content by weight of the emulsion used in the production of cold mix emulsified asphalt each month; and
- (5) The amount of VOC volatilized from the cold-mix (emulsified) asphalt produced each month and for the past twelve (12) months.

Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test results of ASTM tests for cold mix emulsified asphalt may be used to document volatilization. All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

- (f) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.18 Reporting Requirements

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

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (a) Two (2) liquid asphalt storage tanks, constructed after July 23, 1984, identified as Tank No. 11 and T12 each with a maximum storage capacity of 20,000 gallons, exhausting at Stacks SV3 and SV4.
- (b) One (1) No. 2 distillate fuel oil storage tank, constructed before July 23, 1984, identified as Tank No. 12, with a maximum storage capacity of 8,000 gallons, exhausting at Stack SV4.

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

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

#### D.2.1 Record Keeping Requirements [326 IAC 12]

Pursuant to New Source Performance Standard (NSPS), 326 IAC 12, the Permittee shall maintain accessible records for the life of each liquid asphalt storage tank.

The records for each tank shall include:

- (a) The dimensions of the tank;
- (b) An analysis showing the capacity of the tank; and
- (c) The true vapor pressure of the VOC stored, indicating that the maximum true vapor pressure of the VOC is less than 15.0 kPa.

#### D.2.2 Record Keeping and Reporting Requirements [326 IAC 8-9-6]

Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), the Permittee shall maintain a record and submit to the department a report containing the following information on the 8,000 gallon No. 2 distillate fuel oil storage tank:

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.

The owner or operator of a stationary vessel shall keep all records as described for the life of the vessel.

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

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

Source Name: Brooks Construction Company, Inc.  
Source Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899  
FESOP No.: F 039-17738-03325

**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**

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

Source Name: Brooks Construction Company, Inc.  
Source Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899  
FESOP No.: F 039-17738-03325

**This form consists of 2 pages**

**Page 1 of 2**

**9** This is an emergency as defined in 326 IAC 2-7-1(12)  
CThe 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  
CThe Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), 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 any Local Air Pollution Control Agency when applicable

**Single Liquid Binder Solvent Quarterly Report**

Source Name: Brooks Construction Company, Inc.  
 Source Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
 Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899  
 FESOP No.: F 039-17738-03325  
 Facility: Asphalt Plant  
 Parameter: VOC  
 Limit: Cutback asphalt rapid cure liquid binder usage shall not exceed 102.1 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
 Cutback asphalt medium cure liquid binder usage shall not exceed 138.5 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
 Cutback asphalt slow cure liquid binder usage shall not exceed 387.8 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
 Emulsified asphalt with solvent liquid binder usage shall not exceed 197.9 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.  
 Emulsified asphalt with fuel oil liquid binder shall not exceed 1,385 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

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

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

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

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

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

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE DATA SECTION**  
 and any Local Air Pollution Control Agency when applicable  
**Multiple Liquid Binder Solvent Quarterly Report**

Source Name: Brooks Construction Company, Inc.  
 Source Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
 Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899  
 FESOP No.: F 039-17738-03325  
 Facility: Asphalt Plant  
 Parameter: VOC  
 Limit: 96.95 tons per year  
 Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11 months =VOC emitted 12 Month Total(tons)
Month 1	Cutback asphalt rapid cure		1.05				
	Cutback asphalt medium cure		1.42				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.04				
	other asphalt		14.28				
Month 2	Cutback asphalt rapid cure		1.05				
	Cutback asphalt medium cure		1.42				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.04				
	other asphalt		14.28				
Month 3	Cutback asphalt rapid cure		1.05				
	Cutback asphalt medium cure		1.42				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.04				
	other asphalt		14.28				

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

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

Attach a signed certification to complete this report.

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

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

Source Name: Brooks Construction Company, Inc.  
 Source Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
 Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899  
 FESOP No.: F 039-17738-03325

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

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

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

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

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

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

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

Attach a signed certification to complete this report.

## Attachment A

### Brooks Construction Company, Inc. Asphalt Plant Site Fugitive Dust Control Plan

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

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

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

#### **Source Background and Description**

Source Name: Brooks Construction Company, Inc.  
Source Location: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
County: Elkhart  
SIC Code: 2951  
Operation Permit No.: F 039-17738-03325  
Permit Reviewer: ERG/ST

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Brooks Construction Company, Inc., relating to the operation of a portable hot mix asphalt plant. Brooks Construction Company, Inc., was issued FESOP 039-5406-03325 on July 24, 1997.

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

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

- (a) One (1) aggregate drum mix dryer, constructed after June 11, 1973, identified as Emissions Unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) 84 MMBtu/hr natural gas-fired burner, using No. 2 distillate fuel oil as a back-up fuel, controlled by one (1) baghouse with a knockout box, exhausting to Stack SV1.
- (b) One (1) drag slat conveyor.
- (c) Three (3) feeder conveyors.
- (d) One (1) screen.
- (e) Cold-mix (emulsified) asphalt storage piles, containing emulsified asphalt with 1.5% oil distillate by volume.

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

There are no unpermitted facilities 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) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight, including one (1) No. 2 distillate fuel oil-fired hot oil heater, identified as Emission Unit No. 10, with a maximum heat input rate of 1.4 million Btu per hour, using natural gas as back-up fuel, and exhausting at Stack SV2.
- (b) A laboratory as described in 326 IAC 2-7-1(20)(C), including one (1) testing lab trailer.

- (c) Paved and unpaved roads and parking lots with public access.
- (d) Storage tanks with volatile organic compound emissions equal to or less than 3 pounds per hour and 15 pounds per day, and HAP emissions equal to or less than 5 pounds per day and 1 ton per year of a single HAP and 12.5 pounds per day and 2.5 ton per year of any combination of HAPs, including:
  - (1) Two (2) liquid asphalt storage tanks, constructed before July 23, 1984, identified as Tank No. 11 and T12, each with a maximum storage capacity of 20,000 gallons, exhausting at Stacks SV3 and SV4.
  - (2) One (1) No. 2 distillate fuel oil storage tank, constructed before July 23, 1984, identified as Tank No. 12, with a maximum storage capacity of 8,000 gallons, exhausting at Stack SV4.
  - (3) One (1) hot mix asphalt cement storage silo, constructed before July 23, 1984, with a maximum storage capacity of 300 tons.
- (e) Processing and storage units with particulate matter emissions equal to or less than 5 pounds per hour and 25 pounds per day, including the following units:
  - (1) One (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 100 tons.
  - (2) One (1) RAP feed bin with a capacity of 25 tons.
  - (3) Aggregate storage piles, with a maximum storage capacity of 36,000 tons.

### Existing Approvals

The source has been operating under the previous FESOP 039-5406-03325, issued on July 24, 1997 with an expiration date of July 24, 2002, and the following amendments:

- (a) First Amendment: Relocation, 039-9526-03325, issued May 12, 1998.
- (b) Second Amendment: Relocation, 039-10079-03325, issued October 1, 1998.

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

- (a) FESOP 039-5406-03325, issued on July 24, 1997

Condition D.3.2: Required the source to operate fume condenser hoods on the liquid asphalt storage tanks to control odors.

Reason not incorporated: No State Rules require the operation of devices to control odors relating to emissions units operating in accordance with their permitted limits.

### Enforcement Issue

- (a) IDEM is aware that the source did not apply for a FESOP renewal in a timely manner.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operation permit rules.

- (c) The source's FESOP 039-5406-03325, expired on July 24, 2002. The source did not apply for a renewal FESOP by October 24, 2001, pursuant to 326 IAC 2-8-3(h). The source submitted an application for renewal of their FESOP on July 21, 2003.

### Recommendation

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

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

An administratively complete FESOP Renewal application for the purposes of this review was received on July 21, 2003.

There was no notice of completeness letter mailed to the source.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 11).

### 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	36,805
PM-10	8,541
SO <sub>2</sub>	186
VOC	2,804
CO	31
NO <sub>x</sub>	54

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

HAP's	Unrestricted Potential Emissions (tons/yr)
Acetaldehyde	less than 10
Formaldehyde	less than 10
Toluene	less than 10
TOTAL	10.2

\* HAPs include acetaldehyde, benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, quinone, toluene, xylene, arsenic, cadmium, chromium, lead, manganese, mercury, and nickel compounds. No single HAP exceeds a potential to emit of greater than ten (10) tons per year.

- (a) The unrestricted potential emissions of PM10, SO<sub>2</sub> and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Pursuant to 326 IAC 2-8, this source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict PTE to below Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP).

- (c) **Fugitive Emissions**  
 Although this type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2, there are applicable New Source Performance Standards (40 CFR 60, Subpart I) that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

**Potential to Emit After Issuance**

The source, issued a FESOP on July 24, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. 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 Federally Enforceable State Operating Permit 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 (F039-5406-03325; July 24, 1997).

Process / facility	Potential to Emit After Issuance (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NOx	HAP
84 MM Btu Aggregate Drum Mix Dryer / Burner	43.4	30.2	less than 96.8	2.02	30.9	36.8	11.4
Loading, Conveying, Handling	2.73	1.30	-	-	-	-	-
Cold Mix Asphalt Storage Piles	-	-	-	less than 97.0	-	-	neg
Aggregate Storage (Bins and Piles)	0.72	0.25	-	-	-	-	-
1.4 MM Btu Hot Oil Heater	0.14	0.14	3.05	neg	0.52	0.88	neg
Paved and Unpaved Roads	0.67	0.13	-	-	-	-	-
<b>Total PTE After Issuance</b>	<b>47.6</b>	<b>32.0</b>	<b>less than 99.8</b>	<b>less than 99.0</b>	<b>31.4</b>	<b>37.7</b>	<b>11.5</b>

"-" Emissions are negligible.

**County Attainment Status**

The source is located in Elkhart County.

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

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Elkhart County has been designated as attainment or unclassifiable for ozone.
- (b) Elkhart 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.

- (c) This asphalt plant is a portable source initially located in Elkhart County. As a portable source, the plant can be located in both attainment and nonattainment areas excluding the severe ozone nonattainment areas of Lake and Porter Counties.

### **Portable Source**

- (a) **Location**  
This is a portable source and its current location is 18130 U.S. Highway 20, Goshen, Indiana, 46526.
- (b) **PSD and Emission Offset Requirements**  
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, and Emission Offset, 326 IAC 2-3.
- (c) **Fugitive Emissions**  
Since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

### **Federal Rule Applicability**

- (a) This asphalt plant is subject to the New Source Performance Standard, (326 IAC 12, 40 CFR 60, Subpart I), because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973. No owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which: (1) contain particulate matter in excess of 0.04 grains per dry standard cubic foot; or (2) exhibit 20 percent opacity, or greater. The use of a baghouse on the dryer ensures compliance with these limits.
- (b) Although constructed after July 23, 1984, the two (2) 20,000 gallon liquid asphalt storage tanks (Tank 11 and T12) are not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, (326 IAC 12, 40 CFR 60, Subpart Kb)), as revised on October 15, 2003, because the tanks have a capacity greater than or equal to 75 cubic meters but less than 151 cubic meters and are storing a liquid with a maximum true vapor pressure less than 15.0 kilopascals (kPa). However, these tanks are still subject to the recordkeeping requirements of 40 CFR 60.116b (a) and (b) as described under the State Rule requirements of this TSD.
- (c) The two (2) 20,000 gallon liquid asphalt storage tanks (Tank 11 and T12) are not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, (326 IAC 12, 40 CFR 60, Subparts K or Ka)) because the tanks have a capacity less than 40,000 gallons.
- (d) The one (1) 8,000 gallon No. 2 distillate fuel oil storage tank (Tank 12) is not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, (326 IAC 12, 40 CFR 60, Subpart Kb) since the tank was constructed before July 23, 1984, and has a storage capacity less than 75 cubic meters. 40 CFR 60, Subpart Kb was revised on October 15, 2003.
- (e) The one (1) 8,000 gallon No. 2 distillate fuel oil storage tank (Tank 12) is not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, (326 IAC 12, 40 CFR 60, Subpart K or Ka) because the capacity of the tank is less than 40,000 gallons.
- (f) This source is not subject to New Source Performance Standard for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO), as it is already subject to 40 CFR 60, Subpart I, pursuant to 40 CFR 60.670(b).

- (g) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) applicable to this source.
- (h) This source has agreed to operate under a FESOP permit. Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

### **State Rule Applicability - Entire Source**

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

The source was constructed in 1993. The source is not in one of the 28 source categories. However, the source is subject to an NSPS that was in effect on August 7, 1980, therefore, fugitive emissions are counted towards PSD and Emission Offset applicability.

The potential to emit PM, PM<sub>10</sub> and VOC are all greater than 250 tons per year. The source has accepted limits on PM<sub>10</sub>, SO<sub>2</sub> and VOC emissions such that the emissions of these pollutants shall not exceed 100 tons per year (See discussion of FESOP limits). The source's PM emissions are currently limited by 326 IAC 6-1-2 to 10.72 pounds per hour, which is equivalent to 46.94 tons per year when operating at a flow rate of 41,678 acfm. Compliance with 326 IAC 6-1-2 and the FESOP limits will make this source minor for PSD and make 326 IAC 2-2 not applicable to the 1993 construction.

The PTE for PM, PM<sub>10</sub>, SO<sub>2</sub> and VOC for this portable source are all limited to less than 100 tons per year. This portable source will not be allowed to relocate and/or operate in areas designated as a "severe" or "serious" non-attainment area for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, lead or Ozone. Previously, Lake County was the only county designated as a "moderate" non-attainment area for PM<sub>10</sub>, but Lake County has recently been re-designated as a "maintenance attainment" area for PM<sub>10</sub>. Currently, Lake County is the only county designated as a "severe" or "serious" non-attainment area for SO<sub>2</sub>. Currently, Lake and Porter Counties are the only counties designated as a "severe" or "serious" non-attainment area for Ozone. On June 15, 2004, LaPorte, Saint Joseph, Elkhart, Allen, Boone, Hamilton, Madison, Delaware, Hendricks, Marion, Hancock, Vigo, Morgan, Johnson, Shelby, Greene, Jackson, Dearborn (Lawrenceburg Township), Vanderburg, Warrick, Floyd and Clark Counties will be re-designated as "moderate" or "basic" non-attainment areas for ozone. Since the VOC emissions will be limited to less than 100 tons per year (see the FESOP limits discussion below), this source may relocate to LaPorte, Saint Joseph, Elkhart, Allen, Boone, Hamilton, Madison, Delaware, Hendricks, Marion, Hancock, Vigo, Morgan, Johnson, Shelby, Greene, Jackson, Dearborn (Lawrenceburg Township), Vanderburg, Warrick, Floyd and Clark Counties without triggering the provisions of Emission Offset.

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

The source was constructed prior to July 27, 1997 and not modified since 1997; therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

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

This source is not subject to Part 70 requirements and cannot relocate to Porter or Lake County. Revisions to 326 IAC 2-6 (Emission Reporting) became effective March 27, 2004. The Permittee is not required to submit an emissions statement.

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

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the amount of PM<sub>10</sub>, SO<sub>2</sub> and VOC shall be limited to less than one hundred (100) tons per year.

- (a) Pursuant to FESOP 039-5406-03325, issued July 24, 1997, and in order to limit SO<sub>2</sub> emissions from the source to under 100 tons per year, the No. 2 distillate fuel oil shall have a sulfur content less than or equal to 0.49% by weight and the throughput of fuel oil used in the aggregate drum mix dryer burner shall be limited to 2,781.6 kgals of No. 2 fuel

oil per twelve (12) consecutive month period with compliance determined at the end of each month.

$$2,781.6 \text{ kgals fuel oil/year} \times \text{Emission Factor (69.58 lb SO}_2 \text{ /kgal)} \times 1 \text{ ton/2,000 lbs} \\ = 96.8 \text{ tons SO}_2 \text{ /year}$$

Combined with 3.05 tons per year of SO<sub>2</sub> emissions from all other facilities at the source, this will limit total SO<sub>2</sub> emissions from the source to less than 99.8 tons per year.

(b) Pursuant to FESOP 039-5406-03325, issued July 24, 1997, and in order to limit VOC emissions from the source to under 100 tons per year, the VOC emissions from any liquid binder used in asphalt production shall be limited to less than 96.95 tons per year. The liquid binder used in asphalt production shall be limited as follows:

- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 102.1 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 95% volatilization)
- (2) Cutback asphalt medium cure liquid binder usage shall not exceed 138.5 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 70% volatilization)
- (3) Cutback asphalt slow cure liquid binder usage shall not exceed 387.8 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 25% volatilization)
- (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 197.9 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. (Based on 49% volatilization)
- (5) Emulsified asphalt with fuel oil liquid binder usage shall not exceed 1385 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. The fuel oil diluent shall be limited to 1.5% of the total weight of the emulsified asphalt mix. (Based on 7% volatilization)
- (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder (or for a type of binder not listed above), use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows. [The adjustment ratio is equal to 1/(percent of initial VOC in solvent that volatilizes or is emitted from the final product)]

Tons of solvent contained in binder/ Adjustment ratio = tons of VOC emitted

or

Tons of solvent contained in binder x Percent volatilization = tons of VOC emitted

Type of binder	Adjustment Ratio
Cutback Asphalt Rapid Cure (95% volatilization)	1.05

Type of binder	Adjustment Ratio
Cutback Asphalt Medium Cure (70% volatization)	1.42
Cutback Asphalt Slow Cure (25% volatization)	4.00
Emulsified Asphalt (49% volatization)	2.04
Emulsified Asphalt (7% volatization)	14.28

The equivalent total tons of VOC emitted from the combined liquid binders shall be less than 96.95 tons per twelve consecutive month period with compliance determined at the end of each month.

Combined with the VOC emissions from all other facilities at the source, the VOC emissions from the entire source are limited to less than one-hundred (100) tons per year.

- (c) In order to limit PM<sub>10</sub> emissions from the entire source to less than one hundred (100) tons per year, the PM<sub>10</sub> emissions from the aggregate drum mix dryer will be limited to less than 97.2 tons per year. Emission of PM<sub>10</sub> from the aggregate drum mix dryer shall be limited to 0.074 pounds of PM<sub>10</sub> per ton of asphalt produced when operating at a maximum process rate of 300 tons of asphalt per hour. The source uses a bag type dust collection system to control particulate matter emissions from the aggregate dryer. The baghouse shall be in operation at all times the aggregate drum mix dryer is in operation, in order to comply with this limit. Combined with the PM<sub>10</sub> emissions from all other facilities at the source, the PM<sub>10</sub> emissions from the entire source are limited to less than one-hundred (100) tons per year.

A stack test conducted October 15, 1999 indicates that PM10 emissions are 1.91 pounds per hour at a flow rate of 41,678 acfm. The source is currently in compliance with the limit.

Therefore, the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offsets) do not apply.

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

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

- (a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:
- (1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (2) 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.

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

This source is subject to the provisions of 326 IAC 6-4, as the source contains stockpiles of aggregates and roads that have the potential to generate fugitive dust that travels beyond the property borders. Pursuant to 326 IAC 6-4, the source shall not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

**326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations)**

This portable source is subject to 326 IAC 6-5. This portable source is currently located in Elkhart County. It did not receive all of the necessary preconstruction approvals before December 13, 1985. This source has potential sources of fugitive emissions, including storage piles, aggregate handling and paved/unpaved roads. Pursuant to 326 IAC 6-5, this source has submitted a Fugitive Dust Control Plan on March 11, 1996. The Plan is attached to the Permit as Attachment A.

**326 IAC 6-1-2 (a)(PM Emission Limits for the General Source)**

Since the potential to emit PM from this source is greater than 100 tons/yr and the source may relocate to Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County, the source is subject to 326 IAC 6-1-2(a). Pursuant to 326 IAC 6-1-2(a), particulate matter (PM) emissions from the aggregate drum mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). The use of a baghouse ensures compliance with this limit. Compliance with this limit renders 326 IAC 2-2 not applicable.

A stack test conducted October 15, 1999 on the Aggregate Drum Mix Dryer Burner operations indicates that PM emissions are 0.009 grain per dry standard cubic foot (dscf). The source is currently in compliance with the limit.

**State Rule Applicability - 84 MMBtu Aggregate Drum Mix Dryer/Burner, 1.4 MMBtu Hot Oil Heater, Cold Mix Asphalt Storage Piles**

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

The particulate matter for process operations are not applicable to the Aggregate Drum Mix Dryer, Loading, Screening and Conveyor operations because stricter PM limitations have been established by 326 IAC 6-1-2(a). Sources subject to 326 IAC 6-1-2 are not subject to 326 IAC 6-3-2, therefore, the requirements of 326 IAC 6-3-2 shall not apply.

**326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)**

This source is subject to 326 IAC 7-1.1-2 for the 84 MMBtu per hour dryer because the potential SO<sub>2</sub> emissions from the dryer are greater than 25 tons per year. The sulfur dioxide emissions from the 84 MM Btu/hr dryer burning distillate fuel oil shall be limited to 0.5lb/MM Btu heat input. This equates to a fuel oil sulfur content limit of 0.49% by weight. Therefore, the sulfur content of the fuel used in this facility must be less than 0.49% in order to comply with this rule. The source shall comply with this rule by using a No. 2 distillate fuel oil with a sulfur content of 0.49% or less.

**326 IAC 8-5-2 (Asphalt Paving)**

The source is subject to the requirements of 326 IAC 8-5-2 because the requirements of 326 IAC 8-5-2 are applicable to any asphalt paving application located anywhere in the state. 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 for any paving application except the following purposes:

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

This source produces emulsified asphalt on a limited basis. The emulsified asphalt contains a maximum of 1.5% oil distillate by volume. Therefore, this source is in compliance with 326 IAC 8-5-2.

### **State Rule Applicability - Liquid Asphalt Storage Tanks**

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

Although this source can be relocated to Clark or Floyd Counties, the liquid asphalt storage vessels (Tanks 11 and T12) are not subject to the requirements of 326 IAC 8-9 because they are subject to 40 CFR 60, Subpart Kb as published on July 1, 1998 (326 IAC 1-1-3).

The liquid asphalt storage tanks (Tanks 11 and T12), which are not subject to 40 CFR 60, Subpart Kb as published on July 1, 1998, are subject to the requirements of 326 IAC 8-9, because this source is a portable source that is allowed to relocate to Clark and Floyd counties.

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

The two (2) 20,000 gallon liquid asphalt storage tanks (Tank 11 and T12) are subject to the requirements of 326 IAC 12 because they have a volume greater than 75 cubic meters but less than 151 cubic meters and contain a volatile organic liquid with a maximum true vapor pressure greater than 3.5 kilopascals (kPa) but less than 15.0 kilopascals. Pursuant to 326 IAC 12, the Permittee shall maintain records of the dimensions of the tanks and an analysis showing the capacity of the storage tanks. These records shall be maintained for the life of the source. 326 IAC 12 incorporates by reference a version of 40 CFR 60, Subpart Kb, that predates the revisions made to 40 CFR 60, Subpart Kb on October 15, 2003. Subsequent to the revisions made to 40 CFR 60, Subpart Kb on October 15, 2003, the asphalt storage tanks are not subject to the requirements of 40 CFR 60, Subpart Kb, because the tanks have a capacity greater than 75 cubic meters but less than 151 cubic meters and the tanks contain a liquid with a maximum true vapor pressure less than 15.0 kilopascals (kPa). This requirement will remain in effect until the State of Indiana incorporates the revised version of 40 CFR, Subpart Kb into its SIP.

### **State Rule Applicability - 8,000 Gallon No. 2 Distillate Fuel Oil Storage Tank**

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

The source is subject to the requirements of 326 IAC 8-9 because the 8,000 gallon No. 2 distillate fuel oil storage tank contains a volatile liquid and the source can relocate to Floyd or Clark Counties. Pursuant to 326 IAC 8-9, the source shall maintain a record and submit to IDEM a report containing the vessel identification number, the vessel dimensions and the vessel capacity. These records shall be maintained for the life of the source.

### **Testing Requirements**

Since the majority of the total PM and PM<sub>10</sub> emitted from the entire source are emitted by the dryer, the Permittee must perform PM and PM<sub>10</sub> testing on the exhaust from the aggregate drum mix dryer. The tests shall be conducted using methods approved by the Commissioner and should be repeated at least once every five (5) years. Since the latest stack tests were conducted on October 15, 1999, the Permittee must conduct stack testing for PM and PM<sub>10</sub> no later than October 14, 2004.

No stack testing is required for SO<sub>2</sub> and VOC emissions. To demonstrate compliance with the SO<sub>2</sub> emissions limit, the Permittee will keep records of the amount and sulfur content of the fuel oil burned in the dryer. To document compliance with the VOC limit, the Permittee will maintain records of the amount and VOC content of the binder used.

### **Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state

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

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

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

1. The conveying, material transfer points, screening, mixing and drying operation have applicable compliance requirements as specified below:
  - (a) Once per shift visible emissions notations of the conveyors, material transfer points, screening, and mixer/dryer stack shall be performed 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 or 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 mixer/dryer, at least once per shift when the mixer/dryer is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within a range of 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 each calendar quarter of all bags controlling the aggregate drum mix dryer. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

These monitoring condition are necessary because the baghouse for the mixing and drying process must operate properly to ensure compliance with 326 IAC 6-1-2 (Particulate Emissions Limitations), 40 CFR 60, Subpart I (NSPS for Hot Mix Asphalt Facilities), 326 IAC 2-8 (FESOP), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset).

## **Conclusion**

The operation of this a portable hot mix asphalt concrete plant shall be subject to the conditions of the attached FESOP No. F039-17738-03325.

**Appendix A: Emission Calculations  
84 MMBtu/hour Asphalt Heater (Dryer Burner)  
Natural Gas Combustion**

**Company Name: Brooks Construction Company, Inc.**  
**Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526**  
**FESOP: F 039-17738-03325**  
**Plant ID: 039-03325**  
**Reviewer: ERG/ST**  
**Date: December 1, 2003**

Heat Input Capacity MMBtu/hr
84.0

Potential Throughput MMCF/yr
735.8

Emission Factor in lb/MMCF	Pollutant				
	SO <sub>2</sub>	NO <sub>x</sub> **	VOC	CO	HAPs
Potential Emission in tons/yr	0.6	100.0	5.5	84.0	0.09
	0.22	36.8	2.02	30.9	0.03

\*\*Emission Factors for NO<sub>x</sub>: Uncontrolled = 100, Low NO<sub>x</sub> Burner = 50, Low NO<sub>x</sub> Burners/Flue gas recirculation = 32  
 All Emission factors are based on normal firing.  
 MMBtu = 1,000,000 Btu  
 MMCF - 1,000,000 Cubic Feet of Gas

Note: The emissions of PM and PM10 from the dryer are estimated using the AP-42, Chapter 11.1 emission factors for Asphalt Plants and are shown on page five of Appendix A. 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 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03. (AP-42 Supplement D 7/98) The boiler emission factors are being used for these pollutants based on IDEM, OAQ guidance.

**Methodology**

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu  
 PTE (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Total HAP emissions from the dryer burner operations are negligible.

**Appendix A: Emission Calculations  
84 MMBtu/hour Asphalt Heater (Dryer Burner)  
#2 Fuel Oil Combustion**

**Company Name: Brooks Construction Company, Inc.  
Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
FESOP: F 039-17738-03325  
Plant ID: 039-03325  
Reviewer: ERG/ST  
Date: December 1, 2003**

Heat Input Capacity MMBtu/hr 84.0	Potential Throughput kgals/year 5256.0	<b>FESOP-Limited Throughput **</b> kgals/year 2781.6	S = Weight % Sulfur  0.49
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Emission Factor in lb/kgal	Pollutant				
	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
69.58 (142.0 S)	20.0	0.34	5.0	0.007	
PTE Before Input Limits (tons/yr)	182.9	52.6	0.9	13.1	0.0
<b>Potential Emission with Input Limits in tons/yr</b>	<b>96.8</b>	<b>27.8</b>	<b>0.47</b>	<b>6.95</b>	<b>0.01</b>

\*\* #2 Distillate fuel oil usage to the aggregate dryer burner shall be limited to 2781.6 kgals/yr  
1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Note: The emissions of PM and PM10 from the dryer are estimated using the AP-42, Chapter 11.1 emission factors for Asphalt Plants and are shown on page five of Appendix A. The emissions of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are estimated using the boiler emission factors 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) The boiler emission factors are being used for these pollutants based on IDEM, OAQ guidance.

**Methodology**

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

Total HAP emissions from the dryer burner operations are negligible.

**Appendix A: Emission Calculations  
1.4 MM Btu Oil Heater  
Natural Gas Combustion**

**Company Name: Brooks Construction Company, Inc.**  
**Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526**  
**FESOP: F 039-17738-03325**  
**Plant ID: 039-03325**  
**Reviewer: ERG/ST**  
**Date: December 1, 2003**

Heat Input Capacity MMBtu/hr
1.40

Potential Throughput MMCF/yr
12.3

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub> **	VOC	CO	HAPs
Potential Emission in tons/yr	7.6	7.6	0.6	100.0	5.5	84.0	0.09
	0.05	0.05	0.00	0.61	0.03	0.52	0.00

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

\*\*Emission Factors for NO<sub>x</sub>: Uncontrolled = 100, Low NO<sub>x</sub> Burner = 50, Low NO<sub>x</sub> Burners/Flue gas recirculation = 32

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

**Methodology**

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

Total HAP emissions from the oil heater operations are negligible.

**Appendix A: Emission Calculations  
1.4 MM Btu Oil Heater  
#2 Fuel Oil Combustion**

**Company Name: Brooks Construction Company, Inc.  
Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
FESOP: F 039-17738-03325  
Plant ID: 039-03325  
Reviewer: ERG/ST  
Date: December 1, 2003**

Heat Input Capacity MMBtu/hr
1.40

Potential Throughput kgals/year
87.6

S = Weight % Sulfur
0.49

	Pollutant						
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO	HAPs
Emission Factor in lb/kgal	3.3	3.3	69.58 (142.0 S)	20.0	0.34	5.0	0.007
Potential Emission in tons/yr	0.14	0.14	3.05	0.88	0.01	0.22	0.00

\*PM emission factor is for filterable and condensable PM.  
1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu  
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)

**Methodology**

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu  
PTE (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton  
Total HAP emissions from the oil heater operations are negligible.

**Appendix A: Emission Calculations  
Aggregate Drying: Drum Mix Plant  
PM, PM10 and HAP Emissions Before and After Controls**

**Company Name: Brooks Construction Company, Inc.  
Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
FESOP: F 039-17738-03325  
Plant ID: 039-03325  
Reviewer: ERG/ST  
Date: December 1, 2003**

**PTE Before Controls**

Pollutant	EF (lb/ton)	Capacity (ton/hr)	Potential Total Emissions (tons/year) *
PM	28	300	36792
PM-10	6.5	300	8541
HAPs	0.0087	300	11.4

\* These emissions are based on operating the plant at full capacity for 8760 hours /year.

**PTE After Controls**

Pollutant	EF (lb/ton)	Capacity (ton/hr)	Potential Total Emissions (tons/year)
PM	0.033	300	43.4
PM-10	0.023	300	30.2
HAPs	0.0087	300	11.4

PM includes both filterable and condensable PM.

Emission factors for PM and PM10 are from AP-42, Chapter 11.1 - Hot Mix Asphalt Plants, Table 11.1-3 (12/2000).

Emission Factor for HAPs is from AP-42, Chapter 11.1 - Hot Mix Asphalt Plants, Table 11.1-10 (12/2000).  
Based on 8760 hours of use per year

**Methodology**

$$\text{PTE (tons/year)} = \text{Capacity (ton/hr)} \times \text{Emission Factor Ef (lb/ton)} / 2000 \text{ (lb/ton)} \times 8670 \text{ (hr/yr)}$$

**Appendix A: Emission Calculations  
Materials Conveying and Handling**

**Company Name:** Brooks Construction Company, Inc.  
**Address:** 18130 U.S. Highway 20, Goshen, Indiana, 46526  
**FESOP:** F 039-17738-03325  
**Plant ID:** 039-03325  
**Reviewer:** ERG/ST  
**Date:** December 1, 2003

**Storage Pile Handling and Materials Conveying (see AP-42 for more information)**

Capacity = 300 tons/hour

Operation Type	Maximum Capacity (tons/hr)	Emission Factor (lb PM-10/ton)	PM Emissions	
			PM Emissions	PM-10 Emissions
			tons/yr	tons/yr
Truck Loading	300	0.0001	0.28	0.13
Conveyor	300	0.00005	0.14	0.07
Screening	300	0.00084	2.32	1.10
<b>Totals</b>			<b>2.73</b>	<b>1.30</b>

These calculations determine the amount of emissions created by wet (>1.5%) material handling, based on 8760 hours of operation per year.

Emission Factors are from AP-42, Chapter 11.19.2 - Crushed Stone Processing, Table 11.19.2-2. (1/95)

\* Controlled by Moisture (SCC 3-05-020-32, 3-05-020-06, 3-05-020-02-03)

The emission factor multiplier used for calculating PM emissions (2.1 x the PM10 emission factor) is from AP-42,

**Methodology**

PTE for PM10 (tons/yr) = Capacity (tons/hr) x 8760 (hrs/yr) x Emission factor (lb/ton) x Number of Operations.

PTE for PM (tons/yr) = PM10 emissions x 2.1

**Appendix A: Emission Calculations  
Fugitive PM Emissions from Storage Piles**

**Company Name:** Brooks Construction Company, Inc.  
**Address:** 18130 U.S. Highway 20, Goshen, Indiana, 46526  
**FESOP:** F 039-17738-03325  
**Plant ID:** 039-03325  
**Reviewer:** ERG/ST  
**Date:** December 1, 2003

Material	Silt Content:	Pile Size (acres)	Storage Capacity (tons)	PM (tons/yr)	PM10 (tons/yr)
<b>Sand</b>	1.1	0.918	24000	0.20	0.07
<b>Coarse Agg.</b>	1.1	1.377	36000	0.31	0.11
<b>RAP</b>	0.8	0.918	24000	0.20	0.07
<b>Totals</b>			84000	<b>0.72</b>	<b>0.25</b>

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

$$E_f = 1.27 \text{ lb/ac/day}$$

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

Storage capacity (SC) of site (tons) = (# acres)\*(43560 sqft/acre)\*(25 ft high)\*(1/40 ton/cuft)  
 Storage capacity (SC) of site (tons) = 84000

Potential PM Emissions (tpy) =  $E_f * SC * (40 \text{ cuft/ton}) * 365 \text{ day/yr} / (2000 \text{ lb/ton} * 43560 \text{ sqft/acre} * 25 \text{ ft})$   
**Potential PM Emissions (tpy) = 0.72 tpy**

**Appendix A: Emission Calculations  
VOC Emissions From Storage Tanks**

**Company Name: Brooks Construction Company, Inc.**  
**Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526**  
**FESOP: F 039-17738-03325**  
**Plant ID: 039-03325**  
**Reviewer: ERG/ST**  
**Date: December 1, 2003**

Tank I.D.	Material Stored	Construction Date	Capacity (gallons)	Tank Diameter (ft)	Tank Height (ft)	Temperature (deg. C)	Vapor Pressure Provided by Source (psi)	Vapor Pressure Used in Tanks 4.0 (psi)	VOC PTE (lbs/yr)	VOC PTE (tons/yr)	Controls
11	Asphalt		20,000	15	20	150	1.90E-09	2.0E-04	0.7		None
T12	Asphalt		20,000	15	20	150	1.90E-09	2.0E-04	0.7		None
12	Distillate Fuel Oil (No.2)		8,000	10.5	23.5	25	5.9E-03	5.9E-03	5.00		None
<b>Totals</b>									6.4	negligible	

Notes:

VOC emission estimates determined using EPA's TANKS 4.0.

**Appendix A: Emission Calculations  
Fugitive PM Emissions from Paved Roads**

**Company Name: Brooks Construction Company, Inc.  
Address: 18130 U.S. Highway 20, Goshen, Indiana, 46526  
FESOP: F 039-17738-03325  
Plant ID: 039-03325  
Reviewer: ERG/ST  
Date: December 1, 2003**

Note: Brooks Construction has agreed to pave the roads used by triaxial dump trucks with asphalt concrete.

Equation: 
$$E_f = \frac{k \cdot (s/12)^a \cdot (w/3)^b}{(M_{dry}/0.2)^c} \cdot [(365 - p)/365] \cdot (S/15)$$

where:

Ef = emission factor (lb/VMT)  
k = empirical constants  
s = surface material silt content (%)  
W = mean vehicle weight (tons)  
M = surface material moisture content (%)  
a = empirical constant  
b = empirical constant  
c = empirical constant  
S = average vehicle speed (miles/hour)  
p = Number of days with at least 0.01 in of precipitation per year

**Truck Traffic**

	PM-10	PM
k =	2.6	10
s =	4.8	4.8
W =	40	40
a =	0.8	0.8
b =	0.4	0.5
c =	0.3	0.4
M =	0.2	0.2
p =	80	80
S =	10	10
Ef =	0.02	0.08
Miles traveled per year =	16425	16425
<b>Emissions (tons/year) =</b>	<b>0.13</b>	<b>0.67</b>

The equation and constants were taken from AP-42, Chapter 13.2.1 - Paved Roads. (11/2003)

**Appendix A: Emission Calculations  
VOC Emissions from Cold Mix Storage Piles**

**Company Name:** Brooks Construction Company, Inc.  
**Address:** 18130 U.S. Highway 20, Goshen, Indiana, 46526  
**FESOP:** F 039-17738-03325  
**Plant ID:** 039-03325  
**Reviewer:** ERG/ST  
**Date:** December 1, 2003

**Total VOC emissions from the source must be less than 99 tons per year in order to comply with the FESOP limitations.**

VOC emissions from other facilities at this source total 2.05 tons per year. Therefore, VOC emissions from Cold Mix Storage are limited to less than 96.95 tons per year.

VOC Emissions Are Based on Use of Fuel Oil Diluent in Emulsified Asphalt

<b>Potential to Emit VOC Before FESOP Limits</b>
Potential Emissions of VOC before FESOP limits are based on potential throughput of cold mix. Max. Capacity (300 tons/hr) x 8760 (hr/yr) x 0.105 (wt.% flash off) = <b>275940</b> tons VOC /yr

<b>Potential to Emit VOC After FESOP Limits</b>
If source uses Fuel Oil diluent at 1.5% by weight in the finished emulsified asphalt and 7% of diluent volatilizes, then source is limited to using <b>1385</b> tons or <b>397,989</b> gallons of fuel oil diluent per year. This is equivalent to <b>96.95</b> tons of VOC per year.

The VOC Emission Factor = **0.105%** weight percent flash-off of cold mix.

The VOC Emission Factor = **7.00%** of weight of fuel oil diluent.

Weight percent flash-off is determined using the equation in AP-42, Chapter 4.5 - Asphalt Paving Operations (1/95) based on a typical diluent density of 0.8 kg/L and an asphalt density of 1.1 kg/L.

Emission Factors are from AP-42, Chapter 4.5- Asphalt Paving Operations Table 4.5-1. (1/95)

Density of fuel oil is 6.96 pounds per gallon

**Methodology:**

VOC Emissions (tons/yr) = Throughput (tons/yr) x weight percent flash-off

VOC Emissions (tons/yr) = Amount of Diluent used (tons/yr) x Percent of Diluent that volatilizes (%)

**VOC Emissions Based on Use of Cutback Asphalt (Worst Case: Rapid Cure Cutback)**

	% of solvent evaporated	Amount diluent allowed (tons/yr)
Rapid Cure	95%	100.5
Medium Cure	70%	136.4
Slow Cure	25%	382.0

$$\text{Tons VOC limited per year} \quad \frac{95.5}{95\%} = \mathbf{100.5} \quad \text{Tons of Rapid Cure Cutback per year}$$

**Methodology:**

$$\text{Amount of Diluent Allowed (tons/yr)} = \text{VOC Limit (tons/yr)} / \text{Percent of Diluent Emitted as VOC}$$

Emission factors for rapid, medium and slow cure cutback asphalt from AP-42, 4.5.2 (7/79)

**Appendix A: Emission Calculations  
Emissions Summary**

Company Name: **Brooks Construction Company, Inc.**  
Address: **18130 U.S. Highway 20, Goshen, Indiana, 46526**  
FESOP: **F 039-17738-03325**  
Plant ID: **039-03325**  
Reviewer: **ERG/ST**  
Date: **December 1, 2003**

Facility	Pollutant Emissions Prior to Controls (tons/year)						
	PM	PM10	SO <sub>2</sub>	NOx	VOC	CO	HAP
Asphalt Dryer Burner (nat. gas)	-	-	0.22	36.8	2.02	30.9	0.03
Asphalt Dryer Burner (No.2 fuel oil)	-	-	183	52.6	0.89	13.1	0.02
Oil Heater (nat. gas)	0.05	0.05	0.00	0.61	0.03	0.52	0.00
Oil Heater (No.2 fuel Oil)	0.14	0.14	3.05	0.88	0.01	0.22	0.00
Aggregate Drying Drum Mixer	36792	8541	-	-	-	-	11.4
Cold Mix VOC Storage	-	-	-	-	275940	-	0.00
Handling & Conveying	2.73	1.30	-	-	-	-	-
Storage Piles	0.72	0.25	-	-	-	-	-
Paved Roads	0.67	0.13	-	-	-	-	-
<b>Totals</b>	<b>36796</b>	<b>8543</b>	<b>186</b>	<b>54.0</b>	<b>275942</b>	<b>31.4</b>	<b>11.5</b>

Prior to controls and limits, the source's potential emissions exceed the Part 70 thresholds of 100 tons per year for PM-10, SO<sub>2</sub> and VOC and the PSD threshold of 250 tons per year for PM..

Facility	Pollutant Emissions After FESOP Limits and Controls (tons/year)						
	PM	PM10	SO <sub>2</sub>	NOx	VOC	CO	HAP
Asphalt Dryer Burner (nat. gas)	-	-	0.22	36.8	2.02	30.9	0.03
Asphalt Dryer Burner (No.2 fuel oil)	-	-	96.8	27.8	0.47	6.95	0.01
Oil Heater (nat. gas)	0.05	0.05	0.00	0.61	0.03	0.52	0.001
Oil Heater (No.2 fuel Oil)	0.14	0.14	3.05	0.88	0.01	0.22	0.000
Aggregate Drying Drum Mixer	43.4	30.2	-	-	-	-	11.4
Cold Mix VOC Storage	-	-	-	-	97.0	-	-
Handling & Conveying	2.73	1.30	-	-	-	-	-
Storage Piles	0.72	0.25	-	-	-	-	-
Paved Roads	0.67	0.13	-	-	-	-	-
<b>Totals</b>	<b>47.6</b>	<b>32.0</b>	<b>99.8</b>	<b>37.7</b>	<b>99.0</b>	<b>31.4</b>	<b>11.5</b>

Notes: The Asphalt Dryer Burner normally uses natural gas as a fuel.

Only the worst case scenarios for emissions from the Aggregate Dryer Burner and Oil Heater are counted towards total emissions.

A limit on input of fuel oil to the Asphalt Dryer Burner limits SO<sub>2</sub> emissions to less than 100 tons from the source.

A limit on VOC emissions from the Cold Mix Storage limits VOC emissions to less than 100 tons per year for the source.

The baghouse controlling the Aggregate Dryer controls PM and PM10 emissions to under 100 tons per year from the source.