



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: June 16, 2008

RE: Brooks Construction Company, Inc. / 035-26262-03291

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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**NEW SOURCE REVIEW AND FEDERALLY
ENFORCEABLE STATE OPERATING
PERMIT RENEWAL
OFFICE OF AIR QUALITY**

**Brooks Construction Company, Inc.
(Portable)**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-2 and 326 IAC 2-8-11.1, applicable to those conditions

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

Operation Permit No.: 035-26262-03291	
Issued by: <i>Original document signed by</i> Matthew Stuckey, Chief Permits Branch Office of Air Quality	Issuance Date: June 16, 2008 Expiration Date: June 16, 2018

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a portable drum hot mix asphalt plant.

Initial Source Address:	8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address:	6525 Ardmore Avenue, Fort Wayne, Indiana 46809
General Source Phone Number:	260-478-1990
SIC Code:	2951
Initial County Location:	Delaware
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) hot drum mix asphalt plant, constructed in 1987 (unless otherwise specified for specific units), consisting of the following:
 - (1) One (1) aggregate drum mix dryer, identified as emission unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 123 million (MM) British thermal units (Btu) per hour using natural gas, refinery blend fuel oil, No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, or waste oil as back-up fuels and one (1) cyclone and baghouse in series for air pollution control, exhausting at one (1) stack, identified as SV1;
 - (2) Material conveying and handling operations consisting of the following:
 - (A) One (1) drag slat conveyor, three (3) feeder conveyors, and one (1) screen;
 - (B) One (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 100 tons;
 - (C) One (1) Recycled Asphalt Pavement (RAP) feed bin with a maximum holding capacity of 25 tons;
 - (3) One (1) low sulfur No. 2 distillate fuel oil fired reciprocating internal combustion generator, identified as emission unit 13, rated at 4.1 MMBtu/hr, exhausting at one (1) stack, identified as SV5;
 - (4) One (1) liquid asphalt storage tank, identified as Tank 10, constructed in 1979, with a maximum storage capacity of 25,000 gallons, exhausting at one (1) stack, identified as SV3;

- (5) One (1) hot mix asphalt cement storage silo with a maximum storage capacity of 300 tons;
- (6) Aggregate storage piles, with a maximum storage capacity of 54,000 tons; and
- (7) Fugitive emissions from production operations including load-out and yard emissions.

This hot drum mix asphalt plant is considered to be an affected source under 40 CFR 60, Subpart I.

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

This portable source also includes the following insignificant activities:

- (a) One (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 9, rated at 1.96 MMBtu/hr using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV2;
- (b) One (1) No. 2 distillate fuel oil storage tank, identified as Tank 11, with a maximum storage capacity of 12,000 gallons, exhausting at one (1) stack, identified as SV4;
- (c) One (1) alternative fuel oil storage tank, identified as Tank 66, with a maximum storage capacity of 15,000 gallons, approved for construction in 2008;
- (d) One (1) testing lab trailer; and
- (e) Paved and unpaved roads and parking lots with public access.

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).

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, 035-26262-03291, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Local Air Pollution Control Agencies

- (a) If the portable asphalt plant seeks to move to an area under the jurisdiction of any applicable Local Air Pollution Control Agency (LAPCA), the LAPCA may enact additional air pollution control requirements. The Permittee should contact the LAPCA when planning to relocate into an applicable jurisdiction.
- (b) The Local Air Pollution Control Agencies are:

Anderson

Jurisdiction: Madison County

City of Anderson, Air Management Division
P.O. Box 2100
120 East 8th Street, Anderson, IN 46018
(765) 648-6158 (765) 648-5916 (FAX)

Evansville

Jurisdiction: City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County

City of Evansville EPA
C.K. Newsome Community Center
100 East Walnut Street, Suite 100
Evansville, IN 47713
(812) 435-6145 (812) 435-6155 (FAX)

Indianapolis

Jurisdiction: Marion County

Office of Environmental Services
Administration Building
2700 South Belmont Avenue
Indianapolis, IN 46221
(317) 327-2237 (317) 274-2274 (FAX)

Vigo County

Jurisdiction: Vigo County

Vigo County Air Pollution Control
103 South Third Street
Terre Haute, IN 47807
(812) 462-3433 (812) 462-3447(FAX)

B.5 Regional Air Pollution Control Offices

- (a) If the portable asphalt plant seeks to move to an area under the jurisdiction of any applicable regional office, the Permittee should contact the regional office.

- (b) The regional offices are:

Northern Regional Office

Counties: Starke, Fulton, Marshal, St. Joseph, Elkhart, Kosciusko, LaGrange, Noble, DeKalb, Steuben

220 W. Colfax Avenue, Suite 200
South Bend, IN 46601-1634
1-800-753-5519
(574) 245-4870 (574) 245-4877 (FAX)

Northwest Regional Office

Counties: LaPorte

8315 Virginia Avenue, Suite 1
Merrillville, IN 46410-9201
1-888-209-8892
(219) 757-0265 (219)757-0267 (FAX)

Southwest Regional Office

Counties: Knox, Daviess, Martin, Gibson, Pike, DuBois, Orange, Crawford, Perry, Spencer, Warrick, Vanderburgh, Posey

1120 N. Vincennes Avenue
P.O. Box 128
Petersburg, IN 47567
1-888-672-8323
(812) 380-2305 (812) 436-2572 (FAX)

B.6 Enforceability [326 IAC 2-8-6]

- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit are enforceable by the applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

B.7 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.8 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.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) within a reasonable time, any information that IDEM, OAQ and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), copies of records required to be kept by this permit.

- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.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 no later than July 1 of each year to:

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

and

any applicable local agency (as described in Condition B.4 of this permit).

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

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

B.12 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ, and any applicable local agency, 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.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), upon request and

within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit). IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.14 Emergency Provisions [326 IAC 2-8-12]

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

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

and

any applicable Local Air Pollution Control Agency or Regional Office (as described in Conditions B.4 and B.5 of this permit).

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

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit)

and

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

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

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

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

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

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

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

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to 035-26262-03291 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

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

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

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

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

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit)

and

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

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

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

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating

Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, or any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), 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, or any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), 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, or any applicable local agency, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, or any applicable local agency, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.19 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), any additional information identified as being needed to process the application.

B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

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

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

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

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

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;

- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit)

and

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

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

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

Such records shall consist of all information required to be submitted to IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

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

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

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

B.23 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 and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), U.S. EPA, or an authorized representative to perform the following:

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

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

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

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

and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

The application which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

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

- (a) The requirements to obtain a permit modification under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2][326 IAC 6.5-1]

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 when operating in counties other than Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties. When operating in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties, particulate emissions shall be limited pursuant to 326 IAC 6.5-1.

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

(a) 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 when operating in areas not listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:

- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (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 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- (b) 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 when operating in areas listed in 326 IAC 5-1-1(c), 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 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on March 11, 1996, when operating in the areas described in 326 IAC 6-5-1(a). The plan is included as Attachment A.

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

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

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

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

- (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

and

any applicable Local Agency Pollution Control Agency (as described in Condition B.4 of this permit)

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.12 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.13 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

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

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

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

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

C.15 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

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

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

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

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

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit)

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

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

- (c) If the ERP is disapproved by IDEM, OAQ and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction

will be achieved.

- (f) Upon direct notification by IDEM, OAQ and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit), that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 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.18 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

C.20 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source emits oxides of nitrogen into the ambient air equal to or greater than twenty-five (25) tons whenever the source is operating in Lake, Porter, or LaPorte Counties. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

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

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) on or before the date it is due.

C.21 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 or any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) 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.22 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit).

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and any applicable Local Air Pollution Control Agency (as described in Condition B.4 of this permit) on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Portable Source Requirement

C.23 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana, except in Lake and Porter Counties and in areas designated as extreme, severe, or serious nonattainment areas for any National Ambient Air Quality Standard. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in Lake or Porter Counties or any extreme, severe, or serious 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 the following (see Condition B.4 for Local Air Pollution Control Agency contact information):
 - (1) Madison County - (City of Anderson, Air Management Division)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) Marion County - (Indianapolis Office of Environmental Services)
 - (4) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.24 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) hot drum mix asphalt plant, constructed in 1987 (unless otherwise specified for specific units), consisting of the following:
- (1) One (1) aggregate drum mix dryer, identified as emission unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 123 million (MM) British thermal units (Btu) per hour using natural gas, refinery blend fuel oil, No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, or waste oil as back-up fuels and one (1) cyclone and baghouse in series for air pollution control, exhausting at one (1) stack, identified as SV1;
 - (2) Material conveying and handling operations consisting of the following:
 - (A) One (1) drag slat conveyor, three (3) feeder conveyors, and one (1) screen;
 - (B) One (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 100 tons;
 - (C) One (1) Recycled Asphalt Pavement (RAP) feed bin with a maximum holding capacity of 25 tons;
 - (3) One (1) low sulfur No. 2 distillate fuel oil fired reciprocating internal combustion generator, identified as emission unit 13, rated at 4.1 MMBtu/hr, exhausting at one (1) stack, identified as SV5;
 - (4) One (1) liquid asphalt storage tank, identified as Tank 10, constructed in 1979, with a maximum storage capacity of 25,000 gallons, exhausting at one (1) stack, identified as SV3;
 - (5) One (1) hot mix asphalt cement storage silo with a maximum storage capacity of 300 tons;
 - (6) Aggregate storage piles, with a maximum storage capacity of 54,000 tons; and
 - (7) Fugitive emissions from production operations including load-out and yard emissions.

This hot drum mix asphalt plant is considered to be an affected source under 40 CFR 60, Subpart I.

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

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

D.1.1 PM, PM10, CO, VOC and HAP Limitations [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-3] [326 IAC 8-1-6]

Pursuant to 326 IAC 2-8-4, and in order to render 326 IAC 2-2, 326 IAC 2-3, and 326 IAC 8-1-6 not applicable, the emissions from the asphalt plant shall be limited as follows:

- (a) The asphalt production rate shall be limited to less than 1,359,521 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) The emissions from the aggregate dryer/mixer shall be limited as follows:

- (1) PM emissions from the aggregate dryer/mixer (after control) shall be limited to less than 0.0942 pounds of PM per ton of asphalt produced.
 - (2) PM10 emissions from the aggregate dryer/mixer (after control) shall be limited to less than 0.0942 pounds of PM10 per ton of asphalt produced.
 - (3) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.13 pounds of CO per ton of asphalt produced.
 - (4) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.032 pounds of VOC per ton of asphalt produced.
- (c) The emissions from the hot mix asphalt cement storage silo shall be limited as follows:
- (1) PM emissions from the hot mix asphalt cement storage silo shall be limited to less than 5.86E-04 pounds of PM per ton of asphalt produced.
 - (2) PM10 emissions from the hot mix asphalt cement storage silo shall be limited to less than 5.86E-04 pounds of PM10 per ton of asphalt produced.
 - (3) CO emissions from the hot mix asphalt cement storage silo shall be limited to less than 1.18E-03 pounds of CO per ton of asphalt produced.
 - (4) VOC emissions from the hot mix asphalt cement storage silo shall be limited to less than 0.0122 pounds of VOC per ton of asphalt produced.
- (d) The emissions from asphalt load-out shall be limited as follows:
- (1) PM emissions from the asphalt load-out shall be limited to less than 5.22E-04 pounds of PM per ton of asphalt produced.
 - (2) PM10 emissions from the asphalt load-out shall be limited to less than 5.22E-04 pounds of PM10 per ton of asphalt produced.
 - (3) VOC emissions from the asphalt load-out shall be limited to less than 3.91E-03 pounds of VOC per ton of asphalt produced.
 - (4) CO emissions from the asphalt load-out shall be limited to less than 1.35E-03 pounds of CO per ton of asphalt produced.
 - (5) Total HAP emissions from the asphalt load-out shall be limited to less than 8.66E-05 pounds of total HAPs per ton of asphalt produced.
- (e) The yard emissions shall be limited as follows:
- (1) VOC yard emissions shall be limited to less than 1.03E-03 pounds of VOC per ton of asphalt produced.
 - (2) CO yard emissions shall be limited to less than 3.31E-04 pounds of CO per ton of asphalt produced.
 - (3) Total HAP yard emissions shall be limited to less than 1.65E-05 pounds of total HAPs per ton of asphalt produced.

Compliance with these limits, combined with the limits and emissions from other emission units at this source, will render 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), and 326 IAC 8-1-6 (BACT) not applicable.

D.1.2 Fuel Usage Limits [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4, and in order to render 326 IAC 2-2 and 326 IAC 2-3 not applicable, the Permittee shall comply with the following:

- (a) The fuel usage for the aggregate mixer/dryer burner shall be limited as follows:
 - (1) Natural Gas
 - (A) The usage of natural gas in the aggregate dryer burner shall not exceed 638.4 million standard cubic feet (MMscf) per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (B) The NO_x emissions from the aggregate dryer burner shall be limited to less than 190 pounds per MMscf of natural gas.
 - (2) No. 2 Fuel Oil
 - (A) The No. 2 fuel oil combusted in the aggregate dryer burner shall be less than 2,349,600 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (B) For the purpose of determining compliance with this limit, every thousand gallons of No. 2 fuel oil shall be considered equivalent to 500 gallons of refinery blend oil, fuel oil No. 4, fuel oil No. 5; fuel oil No. 6, or waste oil.

1000 gallons of No. 2 oil = 500 gallons of refinery oil
1000 gallons of No. 2 oil = 500 gallons of No. 4 oil
1000 gallons of No. 2 oil = 500 gallon of No. 5 oil
1000 gallons of No. 2 oil = 500 gallons of No. 6 oil
1000 gallons of No. 2 oil = 500 gallons of waste oil
 - (C) The sulfur content of the No. 2 fuel oil used in the aggregate dryer burner shall not exceed 0.5% by weight
 - (D) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 78.5 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (E) The NO_x emissions from the aggregate dryer burner shall be limited to less than 24.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil
 - (3) Refinery blend oil, fuel oil No, 4, fuel oil No. 5, or fuel oil No. 6
 - (A) The usage of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6 shall in no case exceed 1,174,800 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (B) The sulfur content of the refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6, used in the aggregate dryer burner shall not exceed 1.0% by weight.
 - (C) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 157 pounds per thousand gallons (lb/kgal) of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6.

- (D) The NO_x emissions from the aggregate dryer burner shall be limited to less than 47.0 pounds per thousand gallons (lb/kgal) of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6
- (4) Waste Oil
 - (A) The waste oil usage shall in no case exceed 750,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (B) The sulfur content of the waste oil used in the aggregate dryer burner shall not exceed 1.0% by weight.
 - (C) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 157 pounds per thousand gallons (lb/kgal) of waste oil.
 - (D) The NO_x emissions from the aggregate dryer burner shall be limited to less than 47.0 pounds per thousand gallons (lb/kgal) of waste oil.
- (b) Pursuant to 326 IAC 2-8-4, the fuel usage for the generator identified as emission unit 13 shall be limited as follows:
 - (1) The No. 2 fuel oil usage for the generator, identified as emission unit 13, shall be limited to 120,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (2) The NO_x emissions from the generator, identified as emission unit 13, shall be limited to less than 617 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (3) The PM emissions from the generator, identified as emission unit 13, shall be limited to less than 43.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (4) The PM₁₀ emissions from the generator, identified as emission unit 13, shall be limited to less than 43.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (5) The SO₂ emissions from the generator, identified as emission unit 13, shall be limited to less than 40.6 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (6) The CO emissions from the generator, identified as emission unit 13, shall be limited to less than 133 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (7) The VOC emissions from the generator, identified as emission unit 13, shall be limited to less than 50.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.

Compliance with these limits, combined with the emissions from other emission units at the source, will render the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (Prevention of Significant Deterioration), and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.3 Sulfur Dioxide (SO₂) Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-1.1-2]

Pursuant to 7-1.1-2, sulfur dioxide emissions from the aggregate dryer/mixer shall be limited as follows:

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

D.1.4 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]

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

- (a) The usage of waste oil in the 123 MMBtu per hour burner for the aggregate dryer shall be limited to 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The chlorine content of the waste oil used in the 123 MMBtu per hour burner for the aggregate dryer shall not exceed four tenths of a percent (0.40%) by weight.
- (c) The HCl emissions from the 123 MMBtu per hour burner for the aggregate dryer shall be limited to less than 26.4 pounds of HCl per 1,000 gallons of waste oil burned.

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

D.1.5 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a), particulate emissions from the asphalt plant shall not exceed 0.03 grain per dry standard cubic foot when operating in the counties listed in 326 IAC 6.5-1-1(a).

D.1.6 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), the liquid asphalt storage tank (Tank 10) is subject to the reporting and recordkeeping provisions of section 6(a) and 6(b) of this rule when the source is located in Clark or Floyd Counties.

D.1.7 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.1.8 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed one and six-tenths (1.6) pounds per MMBtu for residual oil combustion and five-tenths (0.5) pounds per million Btu heat input for distillate oil combustion by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 96.8 MMBtu per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

D.1.9 Hydrogen Chloride (HCl) Emissions and Chlorine Content

The Permittee shall demonstrate that the chlorine content of the fuel used for the aggregate dryer burner does not exceed four tenths of a percent (0.40%) by weight, when operating on waste oil, by providing a vendor analysis of fuel delivered accompanied by a vendor certification.

D.1.10 Testing Requirements [326 IAC 2-8-4(3)]

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

D.1.11 Particulate Matter (PM and PM10)

- (a) In order to comply with Conditions D.1.1 and D.1.5, the baghouse for PM and PM10 control shall be in operation and control emissions from the aggregate dryer/mixer at all times that the aggregate dryer/mixer is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.12 Visible Emissions Notations

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

D.1.13 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit have been repaired or

replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.14 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer/burner, at least once per day when the aggregate dryer/burner is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions and Exceedances, shall be considered a deviation from this permit.

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

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

D.1.15 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain monthly records of asphalt production.
- (b) To document compliance with Conditions D.1.2, D.1.3, D.1.4, D.1.8, and D.1.9, the Permittee shall maintain records in accordance with (1) through (6) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel usage for natural gas, No. 2 fuel oil, refinery blend oil, No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, and waste oil since last compliance determination period and equivalent SO₂, NO_x, and HCl emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period.

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

- (4) Fuel supplier certifications.
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the No. 2 fuel oil, refinery blend oil, Number 4 fuel oil, Number 5 fuel oil, Number 6 fuel oil, or waste oil, and a statement from the fuel supplier that certifies the chlorine content of the waste oil.

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

- (c) To document compliance with Condition D.1.12, the Permittee shall maintain a daily record of visible emission notations of the aggregate dryer/mixer stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document compliance with Condition D.1.14, the Permittee shall maintain a daily record of the pressure drop across the baghouse. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for that lack of a pressure drop reading (e.g. the process did not operate that day).
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.16 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2, D.1.3 and D.1.4 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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

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

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

Subpart I – Standards of Performance for Hot Mix Asphalt Facilities

§ 60.90 Applicability and designation of affected facility.

- (a) The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.
- (b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.

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

§ 60.91 Definitions.

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

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

[51 FR 12325, Apr. 10, 1986]

§ 60.92 Standard for particulate matter.

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

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

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

§ 60.93 Test methods and procedures.

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

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

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

[54 FR 6667, Feb. 14, 1989]

D.1.19 One Time Deadlines Relating to NSPS Subpart I

The Permittee shall comply with the following requirements by the dates listed below:

Requirement	Rule Citation	Affected Facility	Deadline
Notification of the date of construction commencement	40 CFR 60.7(a)(1)	Aggregate dryer/mixer	No later than 30 days after commencement of construction
Notification of initial startup and Compliance Report	40 CFR 60.7(a)(3)	Aggregate dryer/mixer	Within 15 days of startup

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (a) One (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 9, rated at 1.96 MMBtu/hr using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV2;

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

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

D.2.1 Particulate Emissions [326 IAC 6-2] [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(a), particulate emissions from the hot oil heater shall not exceed 0.03 grain per dry standard cubic foot when operating in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties.
- (b) Pursuant to 326 IAC 6-2-4, the particulate emissions from the hot oil heater shall be limited to 0.6 pounds per MMBtu heat input when operating in counties other than the counties listed in paragraph (a) above.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

- (b) One (1) No. 2 distillate fuel oil storage tank, identified as Tank 11, with a maximum storage capacity of 12,000 gallons, exhausting at one (1) stack, identified as SV4;
- (c) One (1) alternative fuel oil storage tank, identified as Tank 66, with a maximum storage capacity of 15,000 gallons, approved for construction in 2008;
- (d) One (1) testing lab trailer; and
- (e) Paved and unpaved roads and parking lots with public access.

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

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

D.3.1 FESOP, Minor PSD and Emission Offset Limits for PM and PM10 [326 IAC 2-8-4] [326 IAC 2-2][326 IAC 2-3]

Pursuant to 326 IAC 2-8, the Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM and PM10 emissions from paved and unpaved roads. Compliance with this limit, combined with the PM and PM10 emissions from other units at this source, will render the requirements of 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) not applicable.

D.3.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), the No. 2 fuel oil storage tank (Tank 11) and the alternative fuel oil storage tank (Tank 66) are subject to the reporting and recordkeeping provisions of section 6(a) and 6(b) of this rule when the source is located in Clark or Floyd Counties.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

**and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)**

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

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , 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 applicable Local Air Pollution Control Agency
 (as described in Condition B.4 of this permit)**

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
 Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
 Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
 FESOP Permit No.: 035-26262-03291
 Facility: Aggregate Dryer/Mixer
 Parameter: Fuel Oil Usage
 Limit: Less than 2,349,600 gallons of No. 2 fuel oil or equivalent per twelve (12) consecutive month period with compliance determined at the end of each month.

For the purpose of determining compliance with this limit, every thousand gallons of No. 2 fuel oil shall be considered equivalent to 500 gallons of refinery blend oil, fuel oil No. 4, fuel oil No. 5, fuel oil No. 6, or waste oil. However, the usage of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6 shall in no case exceed 1,174,800 gallons per twelve (12) consecutive month period. The waste oil usage shall in no case exceed 750,000 gallons per twelve (12) consecutive month period.

The sulfur content of the No. 2 fuel oil used in the aggregate dryer burner shall not exceed 0.5% by weight. The sulfur content of the refinery blend oil, fuel oil No. 4, fuel oil No. 5, fuel oil No. 6, or waste oil used in the aggregate dryer burner shall not exceed 1.0% by weight.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	No. 2 Fuel Oil & Equivalent Usage This Month (gallons)	No. 2 Fuel Oil & Equivalent Usage Previous 11 Months (gallons)	No. 2 Fuel Oil & Equivalent Usage 12 Month Total (gallons)
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

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

**and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)**

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291
Facility: Generator (Emission Unit 13)
Parameter: Fuel Oil Usage
Limit: Less than 120,000 U.S. gallons of No. 2 fuel oil per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	No. 2 Fuel Oil Usage This Month (gallons)	No. 2 Fuel Oil Usage Previous 11 Months (gallons)	No. 2 Fuel Oil Usage 12 Month Total (gallons)
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

**and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)**

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291
Facility: Aggregate Dryer/Mixer
Parameter: Natural Gas Usage
Limit: Less than 638.4 million standard cubic feet (MMscf) per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Natural Gas Usage This Month (MMscf)	Natural Gas Usage Previous 11 Months (MMscf)	Natural Gas Usage 12 Month Total (MMscf)
Month 1			
Month 2			
Month 3			

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

**and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)**

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291
Facility: Asphalt Plant
Parameter: Asphalt Production
Limit: Less than 1,359,521 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

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

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

and any applicable Local Air Pollution Control Agency
(as described in Condition B.4 of this permit)

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

Source Name: Brooks Construction Company, Inc.
Source Address: 8700 South CR 600 West, Daleville, Indiana 47334
Mailing Address: 6525 Ardmore Avenue, Fort Wayne, Indiana 46809
FESOP Permit No.: 035-26262-03291

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

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 a 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.

Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:

- (1) maintaining minimum size and number of stock piles of aggregate;
- (2) treating around the stockpile area with emulsified asphalt;
- (3) treating around the stockpile area with water;
- (4) treating the stockpiles with water.

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

- (1) applying water at the feed and the intermediate points.

Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:

- (1) minimize the vehicular distance between transfer points;
- (2) enclose the transfer points;
- (3) apply water on transfer points on an as needed basis.

Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:

- (1) tarping the aggregate hauling vehicles;
- (2) maintain vehicle bodies in a condition to prevent leakage;
- (3) spray the aggregates with water;
- (4) maintain a 10 MPH speed limit in the yard.

Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:

- (1) reduce free fall distance to a minimum;
- (2) reduce the rate of discharge of the aggregate;
- (3) spray the aggregate with water on an as needed basis.

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

**Addendum to the Technical Support Document
for a New Source Review and Federally Enforceable State Operating Permit
(FESOP) Renewal**

Source Background and Description

Source Name:	Brooks Construction Company, Inc.
Source Location:	8700 South CR 600 West, Daleville, Indiana 47334
County:	Delaware
SIC Code:	2951
Operation Permit No.:	F035-26262-03291
Permit Reviewer:	ERG/SE

On April 15, 2008, the Office of Air Quality (OAQ) had a notice published in the Muncie Star Press, Muncie, Indiana, stating that Brooks Construction Company, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to continue to operate a hot drum mix asphalt facility with control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On May 12, 2008, comments were submitted by the public (John and Chris Wearly) on the proposed FESOP Renewal. The summary of the comments is as follows:

Comment #1:

The commenters ask that IDEM consider denying this permit renewal. They stated that they were not notified before the asphalt plant was permitted to operate in its current location. John and Chris Wearly live less than 0.25 mile from this asphalt plant, and therefore, should have been notified when Brooks Construction Company applied for a permit to operate at this location. Dick McIntire was listed as the nearest neighbor; however, Dick McIntire is the owner of the acreage on which the asphalt plant is located.

Response to Comment #1:

IDEM has updated the affected party list to include Mr. and Mrs. John Wearly.

Comment #2:

John and Chris Wearly stated that there are days when they cannot go outside because the odor is too bad, and they are concerned about toxins in the air. The dust emissions are also a problem, and the plant roads are never watered. They ask that IDEM look into the dust problem and enforce the applicable rules.

Response to Comment #2:

IDEM does not regulate odors. IDEM's past efforts to obtain authority to address odors have not been successful. The permit requires Brooks Construction Company, Inc. to keep fugitive dust from escaping beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in order not to violate 326 IAC 6-4 (Fugitive Dust Emissions). The

permit also requires Brooks Construction Company, Inc. to control fugitive particulate emissions according to the fugitive dust control plan, which includes watering unpaved roads as needed. The Permittee is required to comply with all conditions of the permit. Noncompliance with any provisions of the permit is grounds for enforcement action and permit termination. The IDEM Air Compliance Inspector assigned to Delaware County is Larry Howard, 317-233-6869.

Comment #3:

There are homes across the highway from the asphalt plant and an apartment nearby, and this plant also affects neighbors who are miles away. This is a residential area and not a place for this type of business. The commenters questioned whether the plant is on the correct zoned ground.

Response to Comment #3:

Air pollution control rules do not regulate plant location decisions. The local government has jurisdiction over zoning.

Comment #4:

The commenters ask that IDEM verify that the correct fuels are being used and make sure that the emissions are tested on a regular basis.

Response to Comment #4:

The permit allows Brooks Construction Company, Inc. to burn No. 2 fuel oil, natural gas, refinery blend fuel oil, No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, or waste oil. The permit limits the amount of fuel that can be burned and limits the sulfur content of each fuel oil burned. Brooks Construction Company, Inc. is required to submit quarterly reports to IDEM, OAQ to demonstrate compliance with the fuel usage limits. The permit also requires the use of a baghouse to control emissions from the asphalt plant and requires PM and PM10 stack testing be performed at least once every five years.

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a New Source Review and Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	Brooks Construction Company, Inc.
Current Source Location:	8700 South CR 600 West, Daleville, Indiana 47334
County:	Delaware
SIC Code:	2951
Operation Permit No.:	F183-14788-03291, when located in Whitley County
Operation Permit Issuance Date:	June 27, 2002
Permit Renewal No.:	F035-26262-03291
Permit Reviewer:	ERG/SE

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Brooks Construction Company, Inc. relating to the operation of a portable drum mix asphalt pavement production plant.

History

On March 26, 2007, Brooks Construction Company, Inc. submitted an application to the OAQ requesting the renewal of its operating permit. Brooks Construction Company, Inc. was issued a FESOP Renewal on June 27, 2002. Under FESOP Renewal No.: 183-14788-03291 and as revised by the Significant Permit Revision No.: 103-21821-03291 issued on January 13, 2006, this portable drum mix asphalt plant is permitted to burn No. 2 fuel oil, natural gas, and refinery blend fuel oil in the aggregate dryer burner. The refinery blend fuel oil is a blend of No. 2 and No. 6 fuel oils that has similar properties to No. 4 fuel oil.

In this renewal, the source has requested to add the options to burn No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, or waste oil. The source has also requested to remove the cold mix (emulsified) asphalt operations from the permit since they do not perform this type of operation.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) hot drum mix asphalt plant, constructed in 1987 (unless otherwise specified for specific units), consisting of the following:
 - (1) One (1) aggregate drum mix dryer, identified as emission unit No. 2, with a maximum capacity of 300 tons per hour, equipped with one (1) No. 2 distillate fuel oil fired aggregate dryer burner with a maximum rated capacity of 123 million (MM) British thermal units (Btu) per hour using natural gas, refinery blend fuel oil, No. 4 fuel oil, No. 5 fuel oil, No. 6 fuel oil, or waste oil as back-up fuels and one (1) cyclone and baghouse in series for air pollution control, exhausting at one (1) stack, identified as SV1;
 - (2) Material conveying and handling operations consisting of the following:
 - (A) One (1) drag slat conveyor, three (3) feeder conveyors, and one (1) screen;

- (B) One (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 100 tons;
- (C) One (1) Recycled Asphalt Pavement (RAP) feed bin with a maximum holding capacity of 25 tons;
- (3) One (1) low sulfur No. 2 distillate fuel oil fired reciprocating internal combustion generator, identified as emission unit 13, rated at 4.1 MMBtu/hr, exhausting at one (1) stack, identified as SV5;
- (4) One (1) liquid asphalt storage tank, identified as Tank 10, constructed in 1979, with a maximum storage capacity of 25,000 gallons, exhausting at one (1) stack, identified as SV3;
- (5) One (1) hot mix asphalt cement storage silo with a maximum storage capacity of 300 tons;
- (6) Aggregate storage piles, with a maximum storage capacity of 54,000 tons; and
- (7) Fugitive emissions from production operations including load-out and yard emissions.

This hot drum mix asphalt plant is considered to be an affected source under 40 CFR 60, Subpart I.

Insignificant Activities

- (a) One (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 9, rated at 1.96 MMBtu/hr using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV2;
- (b) One (1) No. 2 distillate fuel oil storage tank, identified as Tank 11, with a maximum storage capacity of 12,000 gallons, exhausting at one (1) stack, identified as SV4;
- (c) One (1) alternative fuel oil storage tank, identified as Tank 66, with a maximum storage capacity of 15,000 gallons, approved for construction in 2008;
- (d) One (1) testing lab trailer; and
- (e) Paved and unpaved roads and parking lots with public access.

Existing Approvals

Since the issuance of the FESOP Renewal 183-14788-03291 on June 27, 2002, the source has constructed or has been operating under the following approvals:

- (a) Relocation No. 085-16886-03291 issued on March 17, 2003;
- (b) Administrative Amendment No. 085-20130-03291 issued on December 8, 2004;
- (c) Relocation No. 103-20947-03291 issued on April 4, 2005;
- (d) Significant Permit Revision No. 103-21821-03291 issued on January 13, 2006; and
- (e) Relocation No. 035-22709-03291 issued on March 9, 2006.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

The following terms and conditions from previous approvals have been revised in this FESOP Renewal:

(a) PSD minor limits and FESOP limits

The PSD minor limits and FESOP limits included in Conditions D.1.4, D.1.6, D.1.7, D.1.8, and D.2.1 of FESOP Renewal 183-14788-03291, as revised by Significant Permit Revision 103-21821-03291, have been revised based on updated emission calculations (see TSD Appendix A). The emission calculations were updated to allow for burning waste oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6. Compliance with the revised limits will ensure that the source will continue to be minor under 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), and will render the requirements of 326 IAC 2-7 (Part 70 Permit Program) not applicable.

(b) Requirements for Cold Mix (Emulsified) Asphalt Production

Section D.2 of FESOP Renewal 183-14788-03291, as revised by Significant Permit Revision 103-21821-03291, has been removed from the permit. Section D.2 contained requirements for the cold mix (emulsified) asphalt production pursuant to 326 IAC 2-2, 326 IAC 2-3, 326 IAC 2-8, and 326 IAC 8-5. The cold mix (emulsified) asphalt operations have been removed from the source. Therefore, the associated requirements have been removed from the permit.

Enforcement Issue

IDEM is aware that the source did not apply for a FESOP renewal in a timely manner. IDEM is reviewing this matter and will take appropriate action.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 14).

County Attainment Status

The portable source is currently located in Delaware County

Pollutant	Status
PM10	Attainment
PM2.5	Attainment
SO ₂	Attainment
NOx	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Delaware County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

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

Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.

- (c) Delaware County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
Since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Portable Source

- (a) Current Location
This is a portable source and its current location is 8700 South CR 600 West, Daleville, Indiana 47334.
- (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. This source will not be allowed to relocate to areas designated as severe or serious ozone nonattainment (Lake or Porter Counties).
- (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.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	Greater than 250
PM10	Greater than 250
SO ₂	Greater than 250
VOC	Greater than 25 Less than 100
CO	Greater than 100
NO _x	Greater than 250

HAPs	tons/year
Single HAP	Greater than 10
Total HAPs	Greater than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10, SO₂, VOC, CO, and NO_x is equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to continue to limit their PM10, SO₂, VOC, CO, and NO_x emissions to less than Title V levels. Therefore, the source will be issued a FESOP Renewal.

- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of a single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. However, the source has agreed to continue to limit their single HAP emissions and total HAP emissions below Title V levels. Therefore, the source will be issued a FESOP Renewal.
- (d) Fugitive Emissions
 Since this source is in a category for which there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 1999 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not Reported
PM10	0
SO ₂	2
VOC	7
CO	Not Reported
NO _x	0
HAPs	Not Reported

Potential to Emit After Issuance

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

Process/Emission Unit	Potential To Emit (tons/year)						
	PM	PM10	SO ₂	VOC	CO	NOx	HAPs
Aggregate Dryer/Mixer	64.0	64.0	92.2	21.8	88.4	60.7	Single HAP <9.90 Total HAPs <24.0
Material Conveying/Handling	22.9	10.8	--	--	--	--	--
Generator	2.60	2.60	2.44	3.02	7.98	37.0	Total HAPs 0.03
Storage Tanks	--	--	--	3.00	--	--	--
Silo	0.40	0.40	--	8.28	0.80	--	--
Storage Piles	0.71	0.25	--	--	--	--	--
Loadout/Yard	0.35	0.35	--	3.36	1.14	--	Total HAPs 0.07
Hot Oil Heater	0.12	0.20	4.35	0.05	0.71	1.23	Total HAPs 0.02
Unpaved Roads	80.0	20.4	--	--	--	--	--
Total Emissions	171 ⁽¹⁾	99.0 ⁽²⁾	99.0 ⁽²⁾	39.5	99.0 ⁽²⁾	99.0 ⁽²⁾	Single HAP <10.0 Total HAPs <25.0
Part 70 Major Source Threshold	N/A	100	100	100	100	100	Single HAP 10.0 Total HAPs 25.0
PSD Major Source Threshold	250	250	250	250	250	250	N/A
Emission Offset Threshold	100	100	100	100 ⁽³⁾	100	100	N/A

(1) Refer to the State Applicability portion of this TSD for details (326 IAC 2-2).
 (2) Refer to the State Applicability portion of this TSD for details (326 IAC 2-8).
 (3) Threshold is for basic nonattainment. This source is not allowed to relocate to a severe or serious nonattainment area (at this time, these counties are Lake and Porter Counties).

- (a) This existing portable source is not major for PSD because the emissions of each regulated pollutant are limited to less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.

- (b) This existing portable source is not major for Emission Offset because the emissions of PM2.5, NOx, and VOC are limited to less than one hundred (100) tons per year and the source cannot relocate to Lake or Porter Counties or any area designated serious or severe nonattainment for PM2.5 or Ozone.
- (c) **Fugitive Emissions**
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3; however, there is an applicable New Source Performance Standard that was in effect on August 7, 1980. Therefore, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

The following federal rules are applicable to the source:

- (a) This source is still subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90, Subpart I) because it is a hot mix asphalt facility as defined in 40 CFR 60.91 that was constructed after June 11, 1973. Pursuant to 40 CFR 60.90(a), affected facilities include the following: the dryer; the system for screening, handling, storing, and weighing hot aggregate; the system for loading, transferring, and storing mineral filler, the system for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

The affected facilities are subject to the following portions of Subpart I:

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

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

- (b) The requirements of New Source Performance Standards 40 CFR Part 60, Subpart K (Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978) (326 IAC 12) and Subpart Ka (Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984) (326 IAC 12) are not included in this permit for Tank 10, Tank 11, or Tank 66, because the storage capacity of each tank is less than 40,000 gallons.
- (c) The requirements of New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) are not included in this permit for the 12,000 gallon No. 2 distillate fuel oil storage tank (Tank 11) or the 15,000 gallon alternative fuel oil storage tank (Tank 66), because the tanks each have a storage capacity of less than 75 cubic meters. The requirements of New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) are not included in this permit for the 25,000 gallon liquid asphalt storage tank (Tank 10), because the tank was constructed before the rule applicability date of July 23, 1984.
- (d) The requirements of 326 IAC 12 (40 CFR 60, Subpart UU (New Source Performance Standards for Asphalt Processing and Asphalt Roofing Manufacture)) are not included in this permit for this source because this source is not an asphalt processing plant or asphalt roofing plant as defined in 40 CFR 60.471.

- (e) The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants (40 CFR 60, Subpart OOO) (326 IAC 12) are not included in this permit for this source, because this source is subject to the requirements of 40 CFR 60, Subpart I.
- (f) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.
- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Asphalt Processing and Asphalt Roofing Manufacturing (40 CFR 63, Subpart LLLLL) (326 IAC 20-71) are not included in this permit for this source, because the source is not a major source of HAPs and because it is not an asphalt processing or asphalt roofing manufacturing plant as defined in this NESHAP.
- (h) The generator is subject to the requirements of 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) as revised on January 18, 2008 because it is an existing stationary reciprocating internal combustion engine (RICE) located at an area source of HAPs.

However, pursuant to 40 CFR 63, Subpart 63.6590, this existing RICE at an area source does not have to meet the requirements of 40 CFR 63, Subparts A and ZZZZ and no initial notification is necessary. Therefore, the requirements of 40 CFR 63, Subpart ZZZZ have not been included in this permit for this source.

Pursuant to 40 CFR 63.6585(d), an area source subject to this subpart is not subject to the obligation to obtain a Part 70 permit, unless that source is required to obtain a Part 70 permit for another reason. Therefore, this source is still eligible to operate under the FESOP program.

- (i) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 61 or 40 CFR Part 63) included in the permit for this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source was initially constructed in 1987 (Tank 10 was originally constructed and purchased in 1979, but was not used with this asphalt plant until 1987), is not in 1 of 28 source categories listed under PSD. The limits to comply with 326 IAC 2-8 (FESOP) listed below will continue to limit emissions of PM₁₀, NO_x, CO, VOC, and SO₂ to less than 100 tons per year for the entire source. Compliance with these limits, combined with the PM, PM₁₀, NO_x, CO, SO₂, and VOC emissions from all other emission units at this source, will limit the source-wide potential to emit of these pollutants to less than 250 tons per year and render the requirements of 326 IAC 2-2 not applicable. This permit will also limit PM emissions to less than 250 tons per year.

- (a) The asphalt production rate is limited to less than 1,359,521 tons per year.
- (b) The PM emissions from the aggregate dryer/mixer are limited to less than 0.0942 pounds per ton of asphalt produced.
- (c) The PM emissions from the hot mix asphalt cement storage silo are limited to less than 5.86E-04 pounds of PM per ton of asphalt produced.
- (d) The PM emissions from load-out are limited to less than 5.22E-04 pounds of PM per ton of asphalt produced.
- (e) The No. 2 fuel oil usage for the generator, identified as emission unit 13, shall be limited to 120,000 U.S. gallons per year, and PM emissions from the generator shall be limited to less than 43.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.

- (f) The Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM emissions from paved and unpaved roads.

Compliance with these limits will render the requirements of 326 IAC 2-2 not applicable.

326 IAC 2-3 (Emission Offset)

The PTE of PM10 (used as a surrogate for PM2.5), SO₂, CO, VOC, and NO_x for this portable source are all limited to less than 100 tons per year (see discussion of FESOP limits). This portable source will not be allowed to relocate and operate in areas designated as an "extreme", "severe", or "serious" nonattainment area for PM2.5, PM10, SO₂, NO_x, CO, Lead, or Ozone. Currently, Lake and Porter Counties are subject to the major source applicability cut-offs and offset ratios under the area's previous 1-hour ozone standard designation. Therefore, this portable asphalt plant is prohibited from relocating to Lake and Porter Counties. Since the limited potential emissions of PM10 (used as a surrogate for PM2.5), SO₂, CO, VOC, and NO_x are less than 100 tons per year, this source may relocate to any county in Indiana, excluding Lake or Porter, and will be a minor source under 326 IAC 2-3 (Emission Offset).

326 IAC 2-6 (Emission Reporting)

This source is currently located in Delaware County, can relocate to any other county in Indiana excluding Lake and Porter Counties, is not required to operate under the Part 70 Permit Program, does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year, and has the potential to emit VOC and NO_x into the ambient air at levels equal to or greater than twenty-five (25) tons per year. Pursuant to 326 IAC 2-6, when operating in counties other than LaPorte, the source is only subject to additional information requests as provided in 326 IAC 2-6-5. When operating in LaPorte County, the Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period identified in 326 IAC 2-6.

326 IAC 5-1 (Opacity Limitations)

- (a) 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 when operating in areas not listed in 326 IAC 5-1-1(c), unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (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 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (b) 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 when operating in areas listed in 326 IAC 5-1-1(c), 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 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

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).

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

Pursuant to 326 IAC 6-5, fugitive particulate matter emissions shall be controlled according to the plan attached to the permit as Attachment A when operating in the areas described in 326 IAC 6-5-1(a).

326 IAC 2-8 (FESOP)

Pursuant to 326 IAC 2-8-4, and in order to render 326 IAC 2-2 and 326 IAC 2-3 not applicable, the Permittee shall comply with the following:

(a) The fuel usage for the aggregate mixer/dryer burner shall be limited as follows:

(1) Natural Gas

- (A) The usage of natural gas in the aggregate dryer burner shall not exceed 638.4 million standard cubic feet (MMscf) per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (B) The NO_x emissions from the aggregate dryer burner shall be limited to less than 190 pounds per MMscf of natural gas.

(2) No. 2 Fuel Oil

- (A) The No. 2 fuel oil combusted in the aggregate dryer burner shall be less than 2,349,600 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (B) For the purpose of determining compliance with this limit, every thousand gallons of No. 2 fuel oil shall be considered equivalent to 500 gallons of refinery blend oil, fuel oil No. 4, fuel oil No. 5; fuel oil No. 6, or, waste oil.

1000 gallons of No. 2 oil = 500 gallons of refinery oil
1000 gallons of No. 2 oil = 500 gallons of No. 4 oil
1000 gallons of No. 2 oil = 500 gallon of No. 5 oil
1000 gallons of No. 2 oil = 500 gallons of No. 6 oil
1000 gallons of No. 2 oil = 500 gallons of waste oil

- (C) The sulfur content of the No. 2 fuel oil used in the aggregate dryer burner shall not exceed 0.5% by weight
- (D) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 78.5 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
- (E) The NO_x emissions from the aggregate dryer burner shall be limited to less than 24.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil

(3) Refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6

- (A) The usage of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6 shall in no case exceed 1,174,800 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (B) The sulfur content of the refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6, used in the aggregate dryer burner shall not exceed 1.0% by weight.
 - (C) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 157 pounds per thousand gallons (lb/kgal) of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6.
 - (D) The NO_x emissions from the aggregate dryer burner shall be limited to less than 47.0 pounds per thousand gallons (lb/kgal) of refinery blend oil, fuel oil No. 4, fuel oil No. 5, or fuel oil No. 6
- (4) Waste Oil
- (A) The waste oil usage shall in no case exceed 750,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (B) The sulfur content of the waste oil used in the aggregate dryer burner shall not exceed 1.0% by weight.
 - (C) The SO₂ emissions from the aggregate dryer burner shall be limited to less than 157 pounds per thousand gallons (lb/kgal) of waste oil.
 - (D) The NO_x emissions from the aggregate dryer burner shall be limited to less than 47.0 pounds per thousand gallons (lb/kgal) of waste oil.

These limits, combined with the SO₂ and NO_x emissions for the entire source, will limit source-wide SO₂ and NO_x emissions to less than 100 tons per year. Compliance with this limit will render 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) not applicable.

- (b) Pursuant to 326 IAC 2-8-4, the fuel usage for the generator, identified as emission unit 13, shall be limited as follows:
- (1) The usage of No. 2 fuel oil for the generator, identified as emission unit 13, shall be limited to 120,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (2) The NO_x emissions from the generator, identified as emission unit 13, shall be limited to less than 617 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (3) The PM emissions from the generator, identified as emission unit 13, shall be limited to less than 43.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (4) The PM₁₀ emissions from the generator, identified as emission unit 13, shall be limited to less than 43.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
 - (5) The SO₂ emissions from the generator, identified as emission unit 13, shall be limited to less than 40.6 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.

- (6) The CO emissions from the generator, identified as emission unit 13, shall be limited to less than 133 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.
- (7) The VOC emissions from the generator, identified as emission unit 13, shall be limited to less than 50.4 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.

These limits, combined with the emissions from other emission units at this source, will limit emissions of each criteria pollutant for the entire source to less than 100 tons per year. Compliance with these limits will render 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) not applicable.

- (c) Pursuant to 326 IAC 2-8-4, the emissions of PM10, CO, VOC, and HAPs from the aggregate dryer/mixer, hot mix asphalt cement storage silo, asphalt load-out and yard emissions shall be limited as follows:
 - (1) The asphalt production rate shall be limited to less than 1,359,521 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (2) The emissions from the aggregate dryer/mixer shall be limited as follows:
 - (A) PM10 emissions from the aggregate dryer/mixer shall be limited to less than 0.0942 pounds of PM per ton of asphalt produced.
 - (B) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.13 pounds of CO per ton of asphalt produced.
 - (C) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.032 pounds of VOC per ton of asphalt produced.
 - (3) The emissions from the hot mix asphalt cement storage silo shall be limited as follows:
 - (A) PM10 emissions from the hot mix asphalt cement storage silo shall be limited to less than 5.86E-04 pounds of PM per ton of asphalt produced.
 - (B) CO emissions from the hot mix asphalt cement storage silo shall be limited to less than 1.18E-03 pounds of CO per ton of asphalt produced.
 - (C) VOC emissions from the hot mix asphalt cement storage silo shall be limited to less than 0.0122 pounds of VOC per ton of asphalt produced.
 - (4) The emissions from asphalt load-out shall be limited as follows:
 - (A) PM10 emissions from the asphalt load-out shall be limited to less than 5.22E-04 pounds of PM10 per ton of asphalt produced.
 - (B) VOC emissions from the asphalt load-out shall be limited to less than 3.91E-03 pounds of VOC per ton of asphalt produced.
 - (D) CO emissions from the asphalt load-out shall be limited to less than 1.35E-03 pounds of CO per ton of asphalt produced.
 - (D) Total HAP emissions from the asphalt load-out shall be limited to less than 8.66E-05 pounds of total HAPs per ton of asphalt produced.

- (5) The yard emissions shall be limited as follows:
- (A) VOC yard emissions shall be limited to less than 1.03E-03 pounds of VOC per ton of asphalt produced.
 - (B) CO yard emissions shall be limited to less than 3.31E-04 pounds of CO per ton of asphalt produced.
 - (C) Total HAP yard emissions shall be limited to less than 1.65E-05 pounds of total HAPs per ton of asphalt produced.

Compliance with these limits, combined with the emissions from all other emission units at this source, will render 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) not applicable.

- (d) Pursuant to 326 IAC 2-8-4(1), the following limits shall apply to the aggregate dryer:
- (1) The usage of waste oil in the burner for the aggregate dryer shall be limited to less than 750,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.
 - (2) The chlorine content of the waste oil used in the burner for the aggregate dryer shall not exceed four tenths of a percent (0.40%) by weight.
 - (3) The HCl emissions from the burner for the aggregate dryer shall be limited to less than 26.4 pounds of HCl per 1,000 gallons of waste oil burned.

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

- (e) Pursuant to 326 IAC 2-8, the Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM and PM10 emissions from paved and unpaved roads.

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

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

State Rule Applicability – Asphalt Plant

326 IAC 6-2 (Emission Limitations for Sources of Indirect Heating)

The generator and the aggregate dryer burner are not subject to the requirements of 326 IAC 6-2 because they are not sources of indirect heating.

326 IAC 6.5-1-2(a) (Nonattainment Area PM Limitations)

This existing portable asphalt plant has the potential to emit PM before controls greater than 100 tons per year and may be relocated to Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties. Therefore, the PM emission units at this portable asphalt plant are subject to the requirements of 326 IAC 6.5-1-2 (Nonattainment Area Limitations) and

shall comply with the PM emission limit of three-hundredths (0.03) grain per dry standard cubic foot when operating in these counties.

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

Particulate emissions from this asphalt plant are subject to a more stringent particulate requirement in 40 CFR 60, Subpart I, and the particulate emissions are limited by 326 IAC 6.5 when operating in Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties. Therefore, the asphalt plant is exempt from the requirements of 326 IAC 6-3 when operating in any county.

326 IAC 7-1.1-2 (Sulfur Dioxide (SO₂) Emission Limitations)

Pursuant to 326 IAC 7-1.1-1, the aggregate dryer/mixer is subject to the requirements of 326 IAC 7-1.1-2, because it has potential sulfur dioxide emissions greater than twenty-five (25) tons per year. The generator is not subject to the requirements of 326 IAC 7-1.1-2, because the potential to emit sulfur dioxide from this unit is less than twenty-five (25) tons per year. Pursuant to 7-1.1-2, sulfur dioxide emissions from the aggregate dryer/mixer shall be limited as follows:

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

326 IAC 8-1-6 (New Facilities; General Reduction Requirement)

Using the AP-42, Chapter 11.1 emission factors for drum mix asphalt plants, the potential to emit VOC is greater than 25 tons per year from the aggregate dryer burner. However, the source has never actually emitted 25 tons per year or more of VOC from the aggregate dryer burner. The source has agreed to limit asphalt production to less than 1,359,521 tons per twelve (12) consecutive month period and VOC emissions to less than 0.032 pounds of VOC per ton of asphalt produced. This will limit VOC emissions from the aggregate dryer burner to less than 25 tons per year. Therefore, this source is not subject to the requirements of 326 IAC 8-1-6.

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

This portable asphalt plant may relocate to Clark or Floyd Counties. However, the asphalt plant was constructed in 1987, which is prior to the effective date of this rule. The potential to emit NO_x from this source has been limited to less than 100 tons per year. Therefore, the aggregate dryer/mixer is not subject to the requirements of 326 IAC 10-1.

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

The asphalt plant is not subject to the requirements of 326 IAC 10-3 because it does not consist of a portland cement kiln, one of the types of boilers listed in 326 IAC 10-3-1(a)(2), or a blast furnace gas fired boiler with a heat input greater than two hundred fifty million (250,000,000) British thermal units per hour.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

The asphalt plant is not subject to the requirements of 326 IAC 10-4 because it does not consist of an electricity generating unit or large affected unit as defined in 326 IAC 10-4-2.

326 IAC 10-5 (Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE))

The asphalt plant is not subject to the requirements of 326 IAC 10-5 because it does not consist of a large NO_x SIP Call engine.

State Rule Applicability - Storage Tanks

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

The storage tanks are not subject to the requirements of 326 IAC 8-1-6 because they do not have the potential to emit twenty-five (25) tons or more of VOC per year.

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

The storage tanks are not subject to the requirements of 326 IAC 8-4-3 because they are not petroleum liquid storage vessels with capacities greater than thirty-nine thousand (39,000) gallons.

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

This portable source can relocate to Clark or Floyd Counties and has storage tanks with a capacity of less than thirty-nine thousand (39,000) gallons each. Pursuant to 326 IAC 8-9-1(b), the storage tanks are subject to reporting and recordkeeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule when the source is located in Clark or Floyd Counties.

State Rule Applicability - Hot Oil Heater

326 IAC 6.5-1-2(a) (Nonattainment Area PM Limitations)

This existing portable source has the potential to emit PM before controls greater than 100 tons per year and may be relocated to Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne Counties. Therefore, the PM emission units at this portable source (including the hot oil heater) would be subject to a PM emission limit of three-hundredths (0.03) grain per dry standard cubic foot when operating in these counties.

Pursuant to 326 IAC 6.5-1-2, the PM emissions from the hot oil heater shall be limited to less than three-hundredths (0.03) grain per dry standard cubic foot when operating in these counties.

326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)

The hot oil heater is a source of indirect heating that was constructed and relocated to Delaware County after September 21, 1983. Pursuant to 326 IAC 6-2-4(a), particulate emissions from the hot oil heater shall be limited by the following equation:

$$P_t = \frac{1.09}{Q^{0.26}}$$

Where:

P_t = pounds of particulate matter emitted per million Btu heat input (lb/MMBtu).
 Q = total source operating capacity (1 heater with a heat input of 1.96 MMBtu/hour)

$$P_t = \frac{(1.09)}{(1.96)^{0.26}}$$

$$P_t = 0.92 \text{ lb/MMBtu}$$

Pursuant to 326 IAC 6-2-4(a) for Q less than 10 MMBtu/hr, P_t shall not exceed 0.6 pounds per million Btu heat input, which is more stringent than the limit calculated using the equation. Therefore, the particulate emissions from the hot oil heater are limited to less than 0.6 pounds per million Btu heat input. Based on a heating value of 140,000 Btu per gallon of No. 2 fuel oil and the AP-42 emission factor for No. 2 fuel oil combustion in the hot oil heater, the hot oil heater is able to comply with this limit when burning No. 2 fuel oil. Based on a heating value of 1,020 million Btu per million standard cubic foot (MMscf) of natural gas and the AP-42 emission factor for natural gas combustion in the hot oil heater, the hot oil heater is able to comply with this limit when burning natural gas.

If the asphalt plant relocates to any of the counties listed in 326 IAC 6.5, then the hot oil heater will be subject to the limit under 326 IAC 6.5.

Pursuant to 40 CFR 60.90, the hot oil heater is not an affected facility under 40 CFR 60, Subpart I (New Source Performance Standards for Hot Mix Asphalt Facilities). Therefore, the hot oil heater is not subject to a particulate limit under 40 CFR 60, Subpart I, and the hot oil heater is subject to the limit pursuant to 326 IAC 6-2 as described above.

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

The hot oil heater is a source of indirect heating. Pursuant to 326 IAC 6-3-1(b)(1), the hot oil heater is not subject to the requirements of 326 IAC 6-2.

326 IAC 7-1.1-2 (Sulfur Dioxide (SO₂) Emission Limitations)

Pursuant to 326 IAC 7-1.1-1, the hot oil heater is not subject to the requirements of 326 IAC 7-1.1-2 because the potential to emit sulfur dioxide from this unit is less than twenty-five (25) tons per year.

Compliance Determination and Monitoring Requirements

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

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance

Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

Emission Unit	Control Device	Timeframe for Testing	Pollutant	Frequency of Testing	Limit or Requirement
Asphalt Plant Dryer/Mixer	Baghouse	Within 5 years of last valid compliance demonstration	PM/PM10	Once every 5 years	0.0942 pounds of PM/PM10 per ton of asphalt

The PM and PM10 emissions from the aggregate dryer/mixer are limited to 0.0942 pounds per ton of asphalt produced. The baghouse must operate properly to ensure compliance with the limit. This testing requirement is necessary in order to ensure compliance with the limit.

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

Control	Parameter	Frequency	Range	Excursions and Exceedances
Asphalt Plant Dryer/Mixer Baghouse	Water Pressure Drop	Daily	2 to 8 inches	Response Steps
	Visible Emissions		Normal-Abnormal	

These monitoring conditions are necessary because the baghouse for the aggregate mixer/dryer must operate properly to ensure compliance with 326 IAC 2-8 (FESOP), 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), and 326 IAC 6.5-1-2 (Particulate Matter Limitations Except Lake County).

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 application for the purposes of this review was received on March 26, 2007 with additional information received on July 10, 2007; July 11, 2007; January 28, 2008; February 25, 2008; February 26, 2008; March 3, 2008; and March 7, 2008.

Conclusion

The operation of this portable hot drum mix asphalt plant shall be subject to the conditions of the attached FESOP Renewal No. 035-26262-03291.

**Appendix A: Emission Calculations
Aggregate Dryer/Mixer - Natural Gas**

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

Maximum Throughput Capacity (tons/hr)	Maximum Heat Input Capacity (MMBtu/hr)	Potential Throughput (MMscf/yr)
300	123	1,056

1. PTE Using AP-42, Chapter 1.4

		PM*	PM10*	SO ₂	NO _x **	VOC	CO	Single HAP (Hexane)	Total HAPs
AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (7/98).	Emission Factor (lb/MMscf)	1.9	7.6	0.6	190	5.5	84.0	1.8	1.89
	PTE (tons/yr)	1.00	4.01	0.32	100	2.90	44.4	0.95	1.00

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP (Formaldehyde)	Total HAPs
AP-42, Chapter 11.1, Tables 11.1-3, 11.1-7, 11.1-8, 11.1-10, 11.1-12 (3/04)	Emission Factor (lb/ton)	28.0	6.5	0.0034	0.026	0.032	0.13	0.0031	0.01
	PTE (tons/yr)	36,792	8,541	4.47	34.2	42.0	171	4.07	7.09

3. Worst Case PTE for Natural Gas Combustion

	PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP (Formaldehyde)	Total HAPs
Worst Case PTE When Burning Natural Gas (tons/yr)***	36,792	8,541	4.47	100	42.0	171	4.07	7.09

* PM emission factor from AP-42, Chapter 1.4 is for filterable PM only. PM10 emission factor is filterable and condensable PM combined.

**Emission factor for NO_x (Uncontrolled Post-NSPS) = 190 lb/MMscf.

*** When burning natural gas, the worst case PTE emission factors for PM, PM10, SO₂, VOC, CO, and HAPs are from AP-42, Chapter 11.1;

the worst case PTE emission factor for NO_x is from AP-42, Chapter 1.4.

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu

PTE (tons/yr) (AP-42, Chapter 1.4) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Aggregate Dryer/Mixer - No. 2 Fuel Oil**

Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008

Maximum Throughput Capacity (tons/hr)	Maximum Heat Input Capacity (MMBtu/hr)	Potential Throughput (kgal/yr)	Weight % Sulfur (%)
300	123	7,696	0.50

1. PTE Using AP-42, Chapter 1.3

		PM	PM10	SO ₂	NOx	VOC	CO	Single HAP (Formaldehyde)	Organic HAPs	Metal HAPs
AP-42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, 1.3-9, and 1.3-10 (9/98)	Emission Factor (lb/kgal)	2.0	3.3	78.5 (157 S)	24	0.20	5.0	0.061	0.06	4.90E-05 (lb/MMBtu)
	PTE (tons/yr)	7.70	12.70	302	92.4	0.77	19.2	0.23	0.24	0.03

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO ₂	NOx	VOC	CO	Single HAP (Formaldehyde)	Total HAPs
AP-42, Chapter 11.1, Tables 11.1-3, 11.1-7, 11.1-8, 11.1-10, 11.1-12 (3/04)	Emission Factor (lb/ton)	28.0	6.5	0.011	0.055	0.032	0.13	0.0031	0.01
	PTE (tons/yr)	36,792	8,541	14.5	72.3	42.0	171	4.07	16.3

3. Worst Case PTE for No. 2 Fuel Oil Combustion*

	PM	PM10	SO ₂	NOx	VOC	CO	Single HAP (Formaldehyde)	Total HAPs
Worst Case PTE When Burning No. 2 Fuel Oil (tons/yr)	36,792	8,541	302	92.4	42.0	171	4.07	16.3

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

* When burning No. 2 fuel oil, the worst case PTE emission factors for PM, PM10, VOC, CO, and HAPs are from AP-42, Chapter 11.1; the worst case PTE emission factors for SO₂ and NOx are from AP-42, Chapter 1.3.

Methodology

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

Potential to Emit (tons/yr) (AP-42, Chapter 1.3) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lbs

PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

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

Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008

Maximum Throughput Capacity (tons/hr)	Maximum Heat Input Capacity (MMBtu/hr)	Potential Throughput (kgal/yr)	Weight % Sulfur (%)	Weight % Ash (%)	Weight % Chlorine (%)
300	123	8,979	1.00	0.7	0.4

1. PTE Using AP-42, Chapter 1.11

		PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP (HCl)	Total HAPs
AP-42, Chapter 1.11, Tables 1.11-1, 1.11-2, 1.11-3, 1.11-4, and 1.11-5 (10/96)	Emission Factor (lb/kgal)	44.8 (64 A)	35.7 (51 A)	147 (147 S)	19	1.0	5.0	26.4 (66 C)	26.6
	PTE (tons/yr)	201	160	660	85.3	4.49	22.4	119	120

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP (Formaldehyde)	Total HAPs
AP-42, Chapter 11.1, Tables 11.1-3, 11.1-7, 11.1-8, 11.1-10, 11.1-12 (3/04)	Emission Factor (lb/ton)	28.0	6.5	0.058	0.055	0.032	0.13	0.0031	0.01
	PTE (tons/yr)	36,792	8,541	76.2	72.3	42.0	171	4.07	13.6

3. Worst Case PTE for Waste Oil Combustion*

	PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP (HCl)	Total HAPs
Worst Case PTE When Burning Waste Oil (tons/yr)	36,792	8,541	660	85.3	42.0	171	119	120

1 gallon of waste oil has a heating value of 120,000 Btu

* When burning waste oil, the worst case PTE emission factors for PM, PM10, VOC, and CO are from AP-42, Chapter 11.1; the worst case PTE emission factors for SO₂, NO_x, and HAPs are from AP-42, Chapter 1.11.

Methodology

Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.120 MMBtu

PTE (tons/yr) (AP-42, Chapter 1.11) = Potential Throughput (kgal/yr) x Emission Factor (lbs/kgal) x 1 ton/2,000 lbs

PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Aggregate Dryer/Mixer - Fuel Oil No. 4, No. 5, and No. 6 and Refinery Blend Oil

Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008

Maximum Throughput Capacity (tons/hr)	Maximum Heat Input Capacity (MMBtu/hr)	Potential Throughput (kgal/yr)	Weight % Sulfur (%)	Weight % Ash (%)	Weight % Chlorine (%)
300	123	8,979	1.00	0.7	0.18

1. PTE Using AP-42, Chapter 1.3

		PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, 1.3-9, and 1.3-11 (9/98)	Emission Factor (lb/kgal)	12.4 (9.19S + 3.22)	13.9	157 (157 S)	47	0.28	5.0	8.45E-02	0.18
	PTE (tons/yr)	56	62	705	211	1.26	22.4	0.38	0.79

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 11.1, Tables 11.1-3, 11.1-7, 11.1-8, 11.1-10, 11.1-12 (3/04)	Emission Factor (lb/ton)	28.0	6.5	0.058	0.055	0.032	0.13	0.0031	0.01
	PTE (tons/yr)	36,792	8,541	76.2	72.3	42.0	171	4.07	13.6

3. Worst Case PTE for Waste Oil Combustion*

	PM	PM10	SO ₂	NO _x	VOC	CO	Single HAP	Total HAPs
Worst Case PTE When Burning Waste Oil (tons/yr)	36,792	8,541	705	211	42.0	171	4.07	13.6

The emission factors above from AP-42, Chapter 1.3 are for Fuel Oil No. 6. The emission factors above from AP-42, Chapter 11.1 are for waste oil combustion.

As a worst case scenario, these calculations represent the emission calculations for fuel oil No. 4, No. 5, and No. 6 and refinery blend oil.

1 gallon of No. 6 fuel oil has a heating value of 120,000 Btu

* When burning waste oil, the worst case PTE emission factors for PM, PM10, VOC, CO, and HAPs are from AP-42, Chapter 11.1; the worst case PTE emission factors for SO₂ and NO_x are from AP-42, Chapter 1.3.

Methodology

Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.120 MMBtu

PTE (tons/yr) (AP-42, Chapter 1.3) = Potential Throughput (kgal/yr) x Emission Factor (lbs/kgal) x 1 ton/2,000 lbs

PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Aggregate Dryer/Mixer Limits**

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

Max Capacity (tons/hr)

300

Limited Capacity (tons/yr)

1,359,521

	Limited Emission Factor	Control Efficiency (%)
PM	0.0942	99.9%
PM10	0.0942	99.9%

Emission Factors (lbs/ton)	PM	PM10	CO	VOC
	28	6.5	0.13	0.032

Unlimited Potential to Emit (tons/yr)	PM	PM10	CO	VOC
	36,792	8,541	171	42.0

Limited Potential to Emit (tons/yr)	PM	PM10	CO	VOC
	64.0	64.0	88.4	21.8

Potential Controlled Emissions (tons/yr)	PM	PM10	CO	VOC
	44.2	10.2	88.4	21.8

See pages 1 through 4 of the appendix for emission estimates for the other pollutants of combustion from the aggregate dryer/mixer. Uncontrolled emission factors are from AP-42 Chapter 11.1, Table 11.1-1 [3/04].

Methodology

Uncontrolled Potential to Emit (tons/yr) = Maximum Capacity (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x 8,760 hr/yr x 1 ton/2,000 lbs

Limited Potential to Emit (tons/yr) = Maximum Capacity (tons/hr) x Limited Emission Factor (lbs/ton) x 8,760 hr/yr x 1 ton/2,000 lbs

Controlled Potential to Emit (tons/yr) = Potential Uncontrolled Emissions (tons/yr) x (1-Control Efficiency %)

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

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

1. Waste Oil, Fuel Oil No. 4, Fuel Oil No. 5, Fuel Oil No. 6, or Refinery Blend

Maximum Heat Input =		123 MMBtu/hr	
Potential Emissions From Waste Oil in Tons/Year		Potential Emissions From No. 4, 5, 6 and Refinery Blend Oil in Tons/Year	
SO ₂	660	SO ₂	705
NOx	85.3	NOx	211

SO₂ limit: 92.2 tpy

Potential Fuel Usage = (123 MMBtu/hr)*(8,760 hrs/yr)*(1 gal/0.12 MMBtu)*(1 kgal/1000 gal) = 8,979 kgal/yr

Fuel Usage Limit = (92.2 tpy/705 tpy)*(8,979 kgal/yr) = 1,174.8 kgal/year

(Limited NOx Emissions = 1,174.8 kgal/yr x 47 lb/kgal x 1 ton/2,000 lbs = 27.6 tons/yr)

2. No. 2 Fuel Oil

Maximum Heat Input =		123 MMBtu/hr	
Potential Emissions From Fuel Oil #2 in Tons/Year			
SO ₂	302		
NOx	92.4		

SO₂ limit: 92.2 tpy

Potential #2 usage = (123 MMBtu/hr)*(8,760 hrs/yr)*(1 gal/.14 MMBtu)*(1 kgal/1000 gal) = 7,696 kgal/yr

Fuel Usage Limit for #2 = (92.2 tpy/302 tpy)*(7,696 kgal/yr) = 2,349.6 kgal/year

(Limited NOx Emissions = 2,349.6 kgal/yr x 24 lb/kgal x 1 ton/2,000 lbs = 28.2 tons/yr)

Fuel equivalence for re-refined waste oil is determined from the limiting pollutant, SO₂, as follows:

$$\frac{78.5 \text{ lb/1000 gal}}{157 \text{ lb/1000 gal}} = 500 \text{ gallons per 1000 gallons No. 2 distillate oil (i.e., every 1000 gallons of No. 2 oil burned is equivalent to 500 gallons of waste oil burned, based on SO}_2 \text{ emissions)}$$

*However, in order to limit HCl emissions to less than 10 tpy, waste oil usage shall in no case exceed 750,000 gal/yr.

3. Natural Gas

Maximum Heat Input =		123 MMBtu/hr	
Potential Emissions From Natural Gas in Tons/Year			
NOx	100.4		

NOx limit: 60.7 tpy

Potential Natural Gas Usage = 1,056 MMscf/year

Fuel Usage Limit for Natural Gas = (60.7 tpy/100.4 tpy)*(1,056 MMscf/yr) = 638.4 MMscf/yr

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

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

1. Emission Factors: AP-42

According to AP-42, Chapter 13.2.2 - Unpaved Roads (11/06), the PM/PM10 emission factors for unpaved roads can be estimated from the following equation:

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

where:

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

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

Vehicle Type	Mean Vehicle Weight (tons)	Vehicle Miles Traveled (VMT) (miles/yr)	PM Emission Factor (lbs/mile)	PM10 Emission Factor (lbs/mile)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)
Front End Loader	36.0	47,935	5.19	1.32	124	31.7
Triaxle Dump Trucks	24.0	16,425	4.32	1.10	35.5	9.05
Total					160	40.8

Methodology

Front End Loader VMT (miles/yr) = 36 round trips/hour x 0.076 miles/trip x 2 trips/round trip x 8,760 hrs/yr
 Triaxle Dump Trucks VMT (miles/yr) = 7.5 round trips/hour x 0.125 miles/trip x 2 trips/round trip x 8,760 hrs/yr
 PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (lbs/mile) x 1 ton/ 2000 lbs

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

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

PTE of PM after Control = 160 tons/yr x (1-50%) = **80.0 tons/yr**

PTE of PM10 after Control = 40.8 tons/yr x (1-50%) = **20.4 tons/yr**

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

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

1. Emission Factors: AP-42

According to AP-42, Chapter 13.2.4 - Aggregate Handling and Storage Piles (11/06), the PM/PM10 emission factors for aggregate handling for batch or continuous drop operations can be estimated from the following equation:

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

where:

E = emission factor (lbs/ton)	
k = particle size multiplier =	0.74 for PM and 0.35 for PM10
M = material moisture content (%) =	4.80 %
U = mean wind speed =	15 mph
PM Emission Factor =	0.0029 lbs/ton
PM10 Emission Factor =	0.0014 lbs/ton

2. Potential to Emit (PTE) of PM/PM10 from Material Conveying and Handling:

Drop Point Description	Maximum Throughput Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)
Front End Loaders to Feeder Bins	300	0.0029	0.0014	3.81	1.80
Drag Slat Conveyor	300	0.0029	0.0014	3.81	1.80
Feeder Conveyors	300	0.0029	0.0014	3.81	1.80
Screen	300	0.0029	0.0014	3.81	1.80
Cold Feed Bins	300	0.0029	0.0014	3.81	1.80
RAP Feed Bin	300	0.0029	0.0014	3.81	1.80
			Total	22.9	10.8

Methodology:

PTE (tons/yr) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

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

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours per year and AP-42 (Pre 1983 Edition), Ch 11.2.3.

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

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

Material	s (% silt)	p	f	Emission Factor (lb/acre/day)	Pile Size (acres)	sc (tons storage capacity)	PTE of PM (tons/yr)	PTE of PM10* (tons/yr)
Sand	1.10	125	15	1.27	N/A**	N/A**	0.00	0.00
Gravel	1.00	125	15	1.16	N/A**	N/A**	0.00	0.00
Stone	1.00	125	15	1.16	2.066	54,000	0.44	0.15
Slag	1.00	125	15	1.16	0.086	2,250	0.02	0.01
RAP	0.80	125	15	0.93	0.918	40,000	0.26	0.09
Total							0.71	0.25

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

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

*PM10 = 35% of PM:

**Sand and gravel are provided from supplier's stockpiles.

Appendix A: Emission Calculations
Potential to Emit from Hot Oil Heater When Burning No. 2 Fuel Oil

Company Name: Brooks Construction Company, Inc.

Address: (Portable)

FESOP #: 035-26262-03291

Reviewer: ERG/SE

Date: April 1, 2008

Heat Input Capacity (MMBtu/hr)	Potential Throughput (kgals/yr)		S = Weight % Sulfur					
1.96	123		0.5					
	Pollutant							
Emission Factor (lb/kgal)	PM*	PM10*	SO ₂	NOx	VOC	CO	Organic HAPs	Metal HAPs
	2.0	3.3	71.0 (142.0 S)	20.0	0.34	5.0	6.28E-02	4.90E-05 (lb/MMBtu)
Potential to Emit (tons/yr)	0.12	0.20	4.35	1.23	0.021	0.31	3.85E-03	4.21E-04

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

Emission Factors are from AP42, Tables 1.3-1, 1.3-2, 1.3-3, and 1.3-9 (SCC 1-03-005-01/02/03) [9/98]

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

Methodology

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

Potential to Emit (tons/yr) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lbs

Potential to Emit (Metal HAPs) (tons/yr) = Heat Input Capacity (MMBtu/hr) x Emission Factor (lb/MMBtu) x 8,760 hrs/yr x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Potential to Emit from Hot Oil Heater When Burning Natural Gas

Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008

Heat Input Capacity
(MMBtu/hr)

Potential Throughput
(MMscf/yr)

1.96

16.8

	Pollutant						
	PM*	PM10*	SO ₂	NOx**	VOC	CO	HAPs
Emission Factor (lb/MMscf)	1.9	7.6	0.6	100.0	5.5	84.0	1.89
Potential to Emit (tons/yr)	0.02	0.06	0.01	0.84	0.05	0.71	0.02

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

**Emission factor for NOx (Uncontrolled) = 100 lb/MMscf.

Emission Factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (7/98).

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu

Potential to Emit (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lb/MMscf) x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Potential to Emit from No. 2 Fuel Oil-fired Generator

Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008

Maximum Heat Input Capacity
(MMBtu/hr)
4.1

Limited Fuel Usage
(gal/yr)
120,000

1. Unlimited Potential to Emit

	Pollutant						
	PM*	PM10*	SO ₂	NOx	VOC	CO	Total HAPs
Emission Factor (lb/MMBtu)	0.31	0.31	0.29	4.41	0.36	0.95	3.38E-03
Potential to Emit (tons/yr)	5.57	5.57	5.21	79.2	6.46	17.1	0.06
Limited Potential to Emit (tons/yr)	2.60	2.60	2.44	37.0	3.02	7.98	0.03

Emission factors are from AP42, Chapter 3.3, Tables 3.3-1 and 3.3-2 [10/96].

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

*Assume PM equals PM10

Methodology

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

Limited Potential to Emit (tons/yr) = Limited Fuel Usage (gal/yr) x 0.140 MMBtu/gal x Emission Factor (lb/MMBtu) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Potential to Emit from Silo Filling**

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

According to AP-42, Chapter 11.1, Table 11.1-14 (3/04), the PM/PM10 emission factors for PM, VOC, and CO from silo filling can be estimated from the following equations:

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

$$**VOC \text{ Ef (lbs/ton)} = 0.0504(-V)e^{((0.0251)(T + 460) - 20.43)}$$

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

Where:

V = asphalt volatility, default value is -0.5 when site specific data is not available

T = HMA mix temperature in °F, default temperature is 325°F when site specific data is not available

Pollutant	***Emission Factor (lbs/ton)	Maximum Asphalt Throughput (tons/hr)	Potential to Emit (tons/yr)	Limited Asphalt Throughput (tons/yr)	Limited Potential to Emit (tons/yr)
*PM/PM10	5.86E-04	300	0.77	1,359,521	0.40
**VOC	1.22E-02	300	16.0	1,359,521	8.28
CO	1.18E-03	300	1.55	1,359,521	0.80

*The emission factor equation for Total PM was used to calculate PM and PM10 emissions.

**The emission factor equation for TOC was used to calculate VOC emissions.

*** The default values for V and T were used to calculate the emission factors.

Methodology

Potential to Emit (tons/yr) = Emission Factor (lbs/ton) x Maximum Asphalt Throughput (tons/hr) x 8,760 hrs/yr x 1 ton/2,000 lbs

Limited Potential to Emit (tons/yr) = Emission Factor (lbs/ton) x Limited Asphalt Throughput (tons/yr) x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Potential to Emit from Asphalt Loadout and Yard Emissions**

**Company Name: Brooks Construction Company, Inc.
Address: (Portable)
FESOP #: 035-26262-03291
Reviewer: ERG/SE
Date: April 1, 2008**

1. Loadout

According to AP-42, Chapter 11.1, Table 11.1-14 (3/04), the emission factors for PM, TOC, and CO from load-out can be estimated from the following equations:

$$^{(1)}\text{PM/PM10 Ef (lbs/ton)} = 0.000181 + 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$$

$$^{(2)}\text{Organic PM Ef (lbs/ton)} = 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$$

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

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

Where:

V = asphalt volatility, default value is -0.5 when site specific data is not available

T = HMA mix temperature in °F, default temperature is 325°F when site specific data is not available

Pollutant	Emission Factor (lbs/ton) ⁽⁴⁾	Maximum Asphalt Throughput (tons/hr)	Potential to Emit (tons/yr)	Limited Asphalt Throughput (tons/yr)	Limited Potential to Emit (tons/yr)
PM/PM10 ⁽¹⁾	5.22E-04	300	0.69	1,359,521	0.35
VOC ⁽³⁾	3.91E-03	300	5.14	1,359,521	2.66
CO	1.35E-03	300	1.77	1,359,521	0.92
Total HAPs	8.66E-05	300	0.11	1,359,521	0.06

⁽¹⁾The emission factor equation for Total PM was used to calculate PM and PM10 emissions.

⁽²⁾The emission factor equations for Organic PM and TOC were used to calculate HAP emissions pursuant to Tables 11.1-15 and 11.1-16.

⁽³⁾The emission factor equation for TOC was multiplied by 94% (pursuant to Table 11.1-16) in order to calculate VOC emissions.

⁽⁴⁾The default values for V and T were used to calculate the emission factors.

2. Yard

According to AP-42, Chapter 11.1, page 11.1-9 (3/04), the yard emissions of TOC can be estimated using an emission factor of 0.0011 lb/ton of asphalt loaded, and carbon monoxide emissions can be estimated by multiplying the TOC emissions by 0.32. Pursuant to Table 11.1-16, The TOC emission factor was multiplied by 94% in order to calculate VOC emissions and by 1.5% to calculate total HAP emissions.

Pollutant	Emission Factor (lb/ton)	Maximum Asphalt Throughput (tons/hr)	Potential to Emit (tons/yr)	Limited Asphalt Throughput (tons/yr)	Limited Potential to Emit (tons/yr)
VOC	1.03E-03	300	1.36	1,359,521	0.70
CO	3.31E-04	300	0.43	1,359,521	0.22
Total HAPs	1.65E-05	300	0.02	1,359,521	1.12E-02

**Appendix A: Emission Calculations
Emission Summary**

Company Name: Brooks Construction Company, Inc.

Address: (Portable)

FESOP #: 035-26262-03291

Reviewer: ERG/SE

Date: April 1, 2008

Unlimited PTE (tons/yr)

	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	HCl
Aggregate Dryer/Mixer	36,792	8,541	705	211	42.0	171	120	119
Unpaved Roads	160	40.8	--	--	--	--	--	--
Material Conveying/Handlin	22.9	10.8	--	--	--	--	--	--
Storage Piles	0.71	0.25	--	--	--	--	--	--
Storage Tanks*	--	--	--	--	3.00	--	--	--
Hot Oil Heater	0.12	0.20	4.35	1.23	0.05	0.71	0.02	--
Generator	5.57	5.57	5.21	79.2	6.46	17.1	0.06	--
Silo	0.77	0.77	--	--	16.0	1.55	--	--
Loadout and Yard	0.69	0.69	--	--	6.50	2.21	0.13	--
Total	36,983	8,600	714	291	74.1	192	120	119

Limited PTE (tons/yr)

	PM	PM10	SO ₂	NO _x	VOC	CO	Total HAPs	HCl
Aggregate Dryer/Mixer	64.0	64.0	92.2	60.7	21.8	88.4	<24.0	<9.90
Unpaved Roads	80.0	20.4	--	--	--	--	--	--
Material Conveying/Handlin	22.9	10.8	--	--	--	--	--	--
Storage Piles	0.71	0.25	--	--	--	--	--	--
Storage Tanks*	--	--	--	--	3.00	--	--	--
Hot Oil Heater	0.12	0.20	4.35	1.23	0.05	0.71	0.02	--
Generator	2.60	2.60	2.44	37.0	3.02	7.98	0.03	--
Silo	0.40	0.40	--	--	8.28	0.80	--	--
Loadout and Yard	0.35	0.35	--	--	3.36	1.14	0.07	--
Total	171	99.0	99.0	99.0	39.5	99.0	<25.0	<10.0

*As a worst case scenario, it is assumed that all three of the storage tanks at this source have the potential to emit 1.00 ton per year of VOC.