INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Frank O'Bannon
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Lori F. Kaplan
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(317) 232-8603
(800) 451-6027
www.state.in.us/idem

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

Brooks Construction Company, Inc. (Portable)

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

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

Operation Permit No.: F113-14047-03265	
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date:November 20, 2002 Expiration Date: November 20, 2007

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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 hot mix asphalt batch plant.

Authorized Individual:	John R. Brooks, President
Initial Source Address:	819 North Orange Street, Albion, Indiana 46701
Mailing Address:	P.O. Box 9560, Fort Wayne, Indiana 46899
General Source Phone:	(260) 478-1990
SIC Code:	2951
Source Location Status:	Noble
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset rules; Minor Source, Section 112 of the Clean Air Act

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) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 140 tons per hour, equipped with one (1) No. 2 distillate oil fired aggregate dryer burner with a maximum rated capacity of 49 million (MM) Btu per hour using natural gas as a back-up fuel, with one (1) knock out box and one (1) baghouse in series for particulate control, exhausting at one (1) stack, identified as SV1;

(b) four (4) feeder conveyors;

(c) one (1) screen;

(d) cold-mix (stockpile mix) asphalt storage piles;

(e) two (2) liquid asphalt storage tanks, identified as Tanks 14A and 14B, each with a maximum storage capacity of 11,000 gallons, and each tank exhausting at one (1) stack, identified as SV3 and SV4, respectively; and

(f) one (1) No. 2 distillate fuel oil storage tank, identified as Tank 15, with a maximum storage capacity of 11,000 gallons, exhausting at one (1) stack, identified as SV5.

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, as defined in 326 IAC 2-7-1(21):

(a) Paved and unpaved roads and parking lots with public access;

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;

(c) Other categories with emissions below insignificant thresholds:

(1) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 13, rated at 1.12 MMBtu/hr using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV2;
(2) one (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 80 tons;
(3) one (1) hot aggregate bucket elevator;
(4) four (4) hot bins with a total maximum aggregate holding capacity of 30 tons;
(5) one (1) aggregate hopper with a maximum holding capacity of 4,000 pounds, and one (1) asphalt hopper with a maximum holding capacity of 500 pounds;
(6) one (1) pug mill (mixer) with a maximum hot mix holding capacity of 4,000 pounds; and
(7) aggregate storage piles, with a maximum storage capacity of 25,500 tons.

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

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

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

(a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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

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

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

B.3 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

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

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

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

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

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

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

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

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

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

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

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(b) 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.

(c) 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.

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

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

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.

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

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts as specified in Sections D of this permit, IDEM, OAQ may require to determine the compliance status of the source.

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

B.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) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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

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

(1) That this permit contains a material mistake.

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

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

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

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

B.17 Permit Renewal [326 IAC 2-8-3(h)]

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

Request for renewal shall be submitted to:

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

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

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

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

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

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

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

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

(b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]
A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]
Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

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

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

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

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

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable;

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

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

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

C.9 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 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) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

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

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

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

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

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

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the source 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 upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

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

Any monitoring or testing performed 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 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.

(d) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

(a) A compliance schedule for meeting the requirements of 40 CFR 68; or

(b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

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

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or

(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall constitute a violation of the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.18 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 and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

(a) The Permittee shall submit an 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 defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "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 on or before the date it is due.

C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required data, reports and support information 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 kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

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

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Reporting periods are based on calendar years.

Portable Source Requirement

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

(a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.

(b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:

(1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1

(2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

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

(c) A "Relocation Site Approval" letter shall be obtained prior to relocating.

(d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:

(1) Madison County - (Anderson Office of Air Management)

(2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)

(3) City of Gary - Gary Department of Environmental Affairs)

(4) City of Hammond - (Hammond Department of Environmental Management)

(5) Marion County - (Indianapolis Office of Environmental Services)

(6) St. Joseph County - (St. Joseph County Health Department)

(7) Vigo County - (Vigo County Air Pollution Control)

(e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

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

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

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

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

(a) one (1) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 140 tons per hour, equipped with one (1) No. 2 distillate oil fired aggregate dryer burner with a maximum rated capacity of 49 million (MM) Btu per hour using natural gas as a back-up fuel, with one (1) knock out box and one (1) baghouse in series for particulate control, exhausting at one (1) stack, identified as SV1;

(b) four (4) feeder conveyors;

(c) one (1) screen.

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

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

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

D.1.2 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 12] [40 CFR 60.90, Subpart I][326 IAC 2-2] [40 CFR 52.21]

(a) Pursuant to 326 IAC 6-1-2 (Particulate Emissions Limitations), the particulate matter emissions from the mixing and drying operation shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf) of exhaust air. This is equivalent to a particulate matter emission rate of 8.38 pounds per hour. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(b) Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) “Standards of Performance for Hot Mix Asphalt Facilities”, the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf) of exhaust air. This is equivalent to a particulate matter emission rate of 11.17 pounds per hour.

Compliance with the PM emission limit pursuant to 326 IAC 6-1-2 will also satisfy the PM emission limit pursuant to 326 IAC 12, 40 CFR Part 60.90, Subpart I.

D.1.3 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]

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

D.1.4 Particulate Matter 10 Microns (PM10) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the aggregate mixing and drying operation shall not exceed 0.124 pound of PM-10 per ton of asphalt mix. This is equivalent to a PM-10 emission limit of 17.35 pounds per hour, including both filterable and condensible fractions. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 76.00 tons per year for a source-wide total potential to emit of less than 100 tons per year. Therefore, compliance with this limit will satisfy 326 IAC 2-8-4, and will render the Part 70 rules (326 IAC 2-7) not applicable. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 40 CFR 52.21 not applicable.

D.1.5 Sulfur Dioxide (SO_2) [326 IAC 7-1.1-1][326 IAC 7-2-1]

(a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 49.0 million Btu per hour burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.

(b) Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.6 Fuel Usage Limitations [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

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

(a) the sulfur content of the No. 2 distillate fuel oil used in the 49.0 MMBtu per hour burner for the aggregate dryer shall not exceed 0.5 percent.

(b) the usage of No. 2 distillate fuel oil with a maximum sulfur content of 0.5% and No. 2 distillate fuel oil equivalents in the 72.0 MMBtu per hour burner for the aggregate dryer shall be limited to 2,798,986 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month, so that SO_2 emissions are limited to less than 100 tons per year.

(c) For purposes of determining compliance every MMCF of natural gas burned in the 49.0 MMBtu per hour burner for the aggregate dryer shall be equivalent to 8.7 gallons of No. 2 distillate fuel oil based on SO_2 emissions, such that the total gallons of No. 2 distillate fuel oil and No. 2 distillate fuel oil equivalent input does not exceed the limit specified.

Therefore, the requirements of 326 IAC 2-7 will not apply.

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 Particulate Matter (PM)

In order to comply with D.1.2(a) and (b), and D.1.4 the knockout box and baghouse in series for PM and PM10 control shall be in operation and control emissions from the batch mix dryer/burner at all times that the batch mix dryer/burner is in operation.

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

No later than 90 days issuance of this permit, in order to demonstrate compliance with Conditions D.1.2(a) and (b), D.1.3, and D.1.4, the Permittee shall perform PM, PM10 and Opacity testing on the mixing and drying operation (Stack SV1) utilizing methods per 40 CFR Part 60 Appendix A, Method 5 for PM and methods as approved by the Commissioner for PM-10. PM-10 includes filterable and condensible PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.10 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 five-tenths (0.5) pounds per million Btu heat input when burning No. 2 distillate fuel oil by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 49 MMBtu per hour burner for the aggregate dryer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.1.11 Visible Emissions Notations

(a) Visible emission notations of the batch mix dryer/burner baghouse stack exhaust, conveyors, and transfer points, shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.12 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer, mixer, and burner, at least once per shift when the aggregate dryer, mixer, and burner are 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

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

D.1.13 Baghouse Inspections

An inspection shall be performed in the last month of each calender quarter of all bags controlling the aggregate dryer/burner. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.14 Baghouse Failure Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.1.15 Record Keeping Requirements

(a) To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain records in accordance with (1) through (6) below.

(1) Calendar dates covered in the compliance determination period;

(2) Actual No. 2 distillate fuel oil and No. 2 distillate fuel oil equivalent usage in the 49.0 MMBtu per hour burner for the aggregate dryer per month since last compliance determination period and equivalent SO_2 emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

(4) Fuel supplier certifications.

(5) The name of the fuel supplier; and

(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

(b) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in condition D.1.10. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.

(c) To document compliance with Condition D.1.11, the Permittee shall maintain records of the once per shift visible emission notations of the batch mix dryer/burner baghouse stack exhaust, conveyors, and transfer points.

(d) To document compliance with Condition D.1.12, the Permittee shall maintain weekly records of the total static pressure drop and the scrubbing liquid (water) flow rate readings during normal operation.

(e) To document compliance with Condition D.1.13, the Permittee shall maintain records of the results of the inspections required under Condition D.1.13 and the dates the vents are redirected.

(f) 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 Condition D.1.6 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 FACILITY OPERATION CONDITIONS

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

(e) two (2) liquid asphalt storage tanks, identified as Tanks 14A and 14B, each with a maximum storage capacity of 11,000 gallons, and each tank exhausting at one (1) stack, identified as SV3 and SV4, respectively; and

(f) one (1) No. 2 distillate fuel oil storage tank, identified as Tank 15, with a maximum storage capacity of 11,000 gallons, exhausting at one (1) stack, identified as SV5.

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

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

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

Pursuant to 40 CFR Part 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels), the two (2) 11,000 gallon asphalt storage tanks and one (1) 11,000 gallon #2 fuel oil storage tank, each with a vapor pressure of less than 15.0 kPa, are subject to 40 CFR Part 60.116b, paragraphs (a), (b), and (d) which require record keeping.

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

D.2.2 Record Keeping Requirements

(a) To document compliance with Condition D.2.1, the Permittee shall maintain permanent records at the source in accordance with (1) through (3) below:

(1) the dimension of each storage vessel;

(2) an analysis showing the capacity of each storage vessel; and

(3) the true vapor pressure of each VOC stored in each of the two (2) 11,000 gallon asphalt storage tanks, and one (1) 11,000 gallon #2 fuel oil storage tank, indicating that the maximum true vapor pressure of VOC is less than 15.0 kPa.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

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

(d) cold-mix (emulsified) asphalt storage piles.

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

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

D.3.1 Volatile Organic Compound (VOC) [326 IAC 8-5-2] [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21][326 IAC 2-3]

(a) Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the use of cutback asphalt or asphalt emulsion shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

(1) penetrating prime coating

(2) stockpile storage

(3) application during the months of November, December, January, February and March.

(b) Emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall not exceed 195.37 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to limiting the VOC emitted from solvent use to 90.65 tons per twelve (12) consecutive month period, based on the following definition:

Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume.

This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 40 CFR 52.21, and 326 IAC 2-3 (Emission Offset) not applicable.

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

D.3.2 Record Keeping Requirements

To document compliance with Condition D.3.1(b), the Permittee shall maintain records in accordance with (a) through (d) below. Records maintained for (a) through (d) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.3.1(b).

(a) Calendar dates covered in the compliance determination period;

(b) Emulsified asphalt binder usage per month since the last compliance determination period;

(c) VOC solvent content by weight of the emulsified asphalt binder used each month; and

(d) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.3 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1(b) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Brooks Construction Company, Inc.
Initial Source Address: 819 North Orange Street, Albion, Indiana 46701
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899
FESOP No.: F113-14047-03265

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:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

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

Signature:
Printed Name:
Title/Position:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Brooks Construction Company, Inc.
Initial Source Address: 819 North Orange Street, Albion, Indiana 46701
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899
FESOP No.: F113-14047-03265

This form consists of 2 pages **Page 1 of 2**

9 This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_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

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
Initial Source Address: 819 North Orange Street, Albion, Indiana 46701
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899
FESOP No.: F113-14047-03265
Facility: 49 MMBtu per hour aggregate dryer burner
Parameter: No. 2 distillate fuel oil and equivalent usage limit to limit SO_2 emissions
Limit: the usage of No. 2 distillate fuel oil with a maximum sulfur content of 0.5% and No. 2 distillate fuel oil equivalents in the 49 MMBtu per hour burner for the aggregate dryer shall be limited to 2,798,986 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO_2 emissions are limited to less than 100 tons per year.

YEAR: _____

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

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Brooks Construction Company, Inc.
Initial Source Address: 819 North Orange Street, Albion, Indiana 46701
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899
FESOP No.: F113-14047-03265
Facility: Cold Mix Asphalt Storage
Parameter: VOC
Limit: Emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall not exceed 195.37 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to limiting the VOC emitted from solvent use to 90.65 tons per twelve (12) consecutive month period.

YEAR: _____

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

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

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

Attach a signed certification to complete this report.

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

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

Source Name: Brooks Construction Company, Inc.
Initial Source Address: 819 North Orange Street, Albion, Indiana 46701
Mailing Address: P.O. Box 9560, Fort Wayne, Indiana 46899
FESOP No.: F113-14047-03265

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".
9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.
9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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 FESOP renewal

Source Name:	Brooks Construction Company, Inc.
Initial Source Location:	819 North Orange Street, Albion, Indiana 46701
Initial County:	Noble
Operation Permit No.:	F113-14047-03265
SIC Code:	2951
Permit Reviewer:	Linda Quigley/EVP

On September 17, 2002, the Office of Air Quality (OAQ) had a notice published in the Kendallville News-Sun, Kendallville, Indiana, stating that Brooks Construction Company, Inc. had applied for a FESOP renewal to operate a portable hot mix asphalt batch plant. The notice also stated that OAQ proposed to issue a permit for this installation 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.

No comments were received from Brooks Construction Company, Inc.

Upon further review, the OAQ has decided to make the following changes to the FESOP Renewal. Bolded language has been added and the language with a line through it has been deleted.

(1) The Table of Contents has been updated with the following changes:

C.10 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18]
[40 CFR 61~~.140~~ **Subpart M**]
C.15 Pressure Gauge **and Other Instrument** Specifications **[326 IAC 2-1.1-11]**

(2) Section A.1 has been changed to include a general source phone number.

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

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

Authorized Individual:	John R. Brooks, President
Initial Source Address:	819 North Orange Street, Albion, Indiana 46701
Mailing Address:	P.O. Box 9560, Fort Wayne, Indiana 46899
General Source Phone:	**(260) 478-1990**
SIC Code:	2951
Source Location Status:	Noble
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset rules; Minor Source, Section 112 of the Clean Air Act

(3) Section B.3 - In order to avoid confusion for renewals as to what the "original" date refers to, the following change has been made:

B.3 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

This permit is issued for a fixed term of five (5) years from the ~~original~~ **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.

(4) Since B.8 (c) Duty to Supplement and Provide Information already addresses confidentiality, the last sentence of (b) was revised to remove the statement about confidential information, and (c) was updated for clarity. Also, the condition was revised to change a rule reference. Subpart (c) references 326 IAC 17. This rule was repealed by the Air Pollution Control Board on January 26, 2000 and the new rule reference has been added.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

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

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

(b) The Permittee shall furnish to IDEM, OAQ within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit**.** ~~or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]~~

(c) **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.

(5) B.10 - Compliance with Permit Conditions was revised as follows:

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(b) 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.

(c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in ~~condition~~ **Section** B, Emergency Provisions.

(6) The requirement to include emergencies in the Quarterly Deviation and Compliance Monitoring Report has been moved from B.15 to B.14. The statement at the end of (b)(4) of B.14 - Emergency Provisions has been removed, because this is stated again in (f).

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 describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

~~Failure to notify IDEM, OAQ by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]~~

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

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

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

(7) (c) has been removed from B.15 - Deviations from Permit Requirements and Conditions. It was revised and incorporated in B.14 Emergency Provisions (above).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

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

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

~~(c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.~~

(8) B.18 - Permit Amendment or Revision has been revised to replace "should" with "shall" in (b).

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

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

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

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

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

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

(9) In order to be consistent with 326 IAC 2-8-15(a)(5) the rule cite has been revised in B.19(a)(5) B.19 Operational Flexibility. (b) has been removed, because this is a Part 70 requirement not a FESOP requirement.

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

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)**(2)**, (c)(1), and (d).

~~(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:~~

~~(1) A brief description of the change within the source;~~

~~(2) The date on which the change will occur;~~

~~(3) Any change in emissions; and~~

~~(4) Any permit term or condition that is no longer applicable as a result of the change.~~

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

~~(c)~~**(b)** Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

~~(d)~~**(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.

(10) B.22 (c)Transfer of Ownership or Operational Control rule cite has been corrected.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

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

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

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

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-~~11~~ **10**(b)(3)]

(11) 326 IAC 2-1.1-7 specifies that nonpayment may result in revocation of the permit. This is not specified in 326 IAC 2-8; therefore, this rule cite is being added to B.23. Also, the section and phone number of who the Permittee can contact has been corrected in (c).

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]**[326 IAC 2-1.1-7]**

(a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) 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-~~0425~~ **4320** (ask for OAQ, ~~Technical Support and Modeling Section~~ **I/M & Billing Section**), to determine the appropriate permit fee.

(12) C.1 has been revised to reflect the new rule language for limiting particulate emissions.

C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds Per Hour **[40 CFR 52 Subpart P]**[326 IAC 6-3-2~~(c)~~]

(a) Pursuant to ~~326 IAC 6-3-2(c)~~ **40 CFR 52 Subpart P**, the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.

(b) Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions rate 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.

(13) The following was added to C.12 Compliance Requirements to state what OAQ does when stack testing, monitoring, or reporting is required to assure compliance with applicable requirements:

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.

(14) C.15 a new (c) was added to address pH and removed pH from (b).

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

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature **or** flow rate ~~or pH level~~, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Preventive Maintenance Plan for the pH meter shall include calibration using known standards. The frequency of calibration shall be adjusted such that the typical error found at calibration is less than one pH point.

(d) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

(15) C.21 (d) General Reporting Requirements has been revised to indicate all reports instead of quarterly report forms.

C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(d) Unless otherwise specified in this permit, ~~any quarterly~~ **all** report**s** required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. ~~The~~ **All** reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(16) A new (b) was added to C.22 Relocation to point out to the Permittee that they need to submit more than just a letter notifying IDEM, OAQ that they intend to relocate. The names of the local agencies have been updated. The word "That" was removed from (c).

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

(a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. ~~A thirty (30) day advance notice of relocation must be given to IDEM, OAQ and a "Relocation Site Approval" letter must be obtained before relocating. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~ **Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.**

(b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:

(1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1

(2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

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

(c) A "Relocation Site Approval" letter shall be obtained prior to relocating.

~~(b)~~**(d)** The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:

(1) Madison County - (Anderson Office of Air Management)

(2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)

(3) City of Gary - (~~Gary Division of Air Pollution~~ **Gary Department of Environmental Affairs**)

(4) City of Hammond - (Hammond Department of Environmental Management)

(5) Marion County - (Indianapolis ~~Air Pollution Control Agency~~ **Office of Environmental Services**)

(6) St. Joseph County - (St. Joseph County Health Department)

(7) Vigo County - (Vigo County Air Pollution ~~Department~~ **Control**)

~~(c)~~ **(e)** ~~That a~~ A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

(17) The phrase "of exhaust air" was added to condition D.1.2 for clarity.

D.1.2 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 12] [40 CFR 60.90, Subpart I][326 IAC 2-2] [40 CFR 52.21]

(a) Pursuant to 326 IAC 6-1-2 (Particulate Emissions Limitations), the particulate matter emissions from the mixing and drying operation shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf) **of exhaust air**. This is equivalent to a particulate matter emission rate of 8.38 pounds per hour. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(b) Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf) **of exhaust air**. This is equivalent to a particulate matter emission rate of 11.17 pounds per hour.

Compliance with the PM emission limit pursuant to 326 IAC 6-1-2 will also satisfy the PM emission limit pursuant to 326 IAC 12, 40 CFR Part 60.90, Subpart I.

(18) Additional information was added to D.1.14 Broken or Failed Bag Detection to describe when a failed unit will be shut down.

D.1.14 Baghouse Failure Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(b) For single compartment baghouses, **if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then** failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(19) In order to be consistent with the Parametric Monitoring condition D.1.12, D.1.15(d) has been revised to record "total static pressure drop".

D.1.15 Record Keeping Requirements

(d) To document compliance with Condition D.1.12, the Permittee shall maintain weekly records of the ~~inlet and outlet differential~~ **total** static pressure **drop** and the scrubbing liquid (water) flow rate readings during normal operation.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Brooks Construction Company, Inc.**
Initial Source Location:	**819 North Orange Street, Albion, Indiana 46701**
Initial County:	**Noble**
SIC Code:	**2951**
Operation Permit No.:	**F113-14047-03265**
Permit Reviewer:	**Linda Quigley/EVP**

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Brooks Construction Company, Inc. relating to the operation of a portable hot mix asphalt batch plant. Brooks Construction Company, Inc. was issued FESOP 151-5409-03265 on December 11, 1996.

Permitted Emission Units and Pollution Control Equipment

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

(a) one (1) aggregate rotary dryer, identified as emission unit No. 2, with a maximum capacity of 140 tons per hour, equipped with one (1) No. 2 distillate oil fired aggregate dryer burner with a maximum rated capacity of 49 million (MM) Btu per hour using natural gas as a back-up fuel, with one (1) knock out box and one (1) baghouse in series for particulate control, exhausting at one (1) stack, identified as SV1;

(b) four (4) feeder conveyors;

(c) one (1) screen;

(d) cold-mix (stockpile mix) asphalt storage piles;

(e) two (2) liquid asphalt storage tanks, identified as Tanks 14A and 14B, each with a maximum storage capacity of 11,000 gallons, and each tank exhausting at one (1) stack, identified as SV3 and SV4, respectively; and

(f) one (1) No. 2 distillate fuel oil storage tank, identified as Tank 15, with a maximum storage capacity of 11,000 gallons, exhausting at one (1) stack, identified as SV5.

Note: The knockout box and baghouse in series for particulate control has replaced the cyclone, pre-scrubber, and scrubber in series. This source submitted a permit application for the knockout box and baghouse, 151-13742-03265, that was received on January 11, 2001, which has been combined with this FESOP renewal.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

(a) Paved and unpaved roads and parking lots with public access;

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;

(c) Other categories with emissions below insignificant thresholds:

(1) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 13, rated at 1.12 MMBtu/hr using natural gas as back-up fuel, exhausting at one (1) stack, identified as SV2;
(2) one (1) cold feed system consisting of four (4) compartments with a total aggregate holding capacity of 80 tons;
(3) one (1) hot aggregate bucket elevator;
(4) four (4) hot bins with a total maximum aggregate holding capacity of 30 tons;
(5) one (1) aggregate hopper with a maximum holding capacity of 4,000 pounds, and one (1) asphalt hopper with a maximum holding capacity of 500 pounds;
(6) one (1) pug mill (mixer) with a maximum hot mix holding capacity of 4,000 pounds; and
(7) aggregate storage piles, with a maximum storage capacity of 25,500 tons.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) F151-5409-03265, issued on December 11, 1996; and

(b) Portable Source Relocation, issued January 24, 2001.

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

(1) Frequencies for visible emissions notations have been changed to once per shift.

Reason changed: Compliance monitoring conditions are in the permit in order to ensure continuous compliance with the requirements. Control device failure can occur suddenly; therefore monitoring of relevant operational parameters should be more frequent than weekly or even daily in such cases where a source operates more than one shift per day. The OAQ believes that changing visible emissions notations to once per operating shift is necessary for the covered control device to assure the proper operation of the equipment. Therefore, the requirements to perform visible emissions notations have been changed from daily to once per shift.

(2) Conditions D.1.12 and D.1.13: Record Keeping Requirements. Record Keeping to document compliance with the No. 2 fuel oil (or equivalent) usage limitation has been changed from daily to monthly. Record Keeping to document compliance with parametric monitoring has been changed from daily to weekly.

Reason Changed: The OAQ believes that monthly record keeping for fuel oil usage is necessary and sufficient to determine compliance with the fuel oil usage limitation. The OAQ also believes that weekly record keeping documenting compliance with parametric monitoring is necessary and sufficient to determine compliance.

(3) Compliance Monitoring Conditions relating to the cyclone, pre-scrubber and scrubber in series have been changed to compliance monitoring conditions for a baghouse.

Enforcement Issue

(a) IDEM is aware that PM and PM10 testing at the aggregate rotary drum dryer cyclone/scrubber exhaust stack was not conducted in accordance with Condition D.1.6 of FESOP 151-5409-03265;

(b) IDEM is reviewing this matter and will take appropriate action.

Recommendation

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on March 6, 2001. Additional information was received on August 26, 2002 and September 3, 2002.

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

Emission Calculations

See Appendix A of this document for detailed emissions calculations, pages 1 through 10.

Unrestricted Potential Emissions

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

Pollutant	Potential To Emit (tons/year)
PM	greater than 250
PM-10	greater than 250
SO_2	greater than 100, less than 250
VOC	greater than 250
CO	less than 100
NO_x	less than 100

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

HAP's	Potential To Emit (tons/year)
Acetaldehyde	less than 10
Arsenic	less than 10
Benzene	less than 10
Beryllium	less than 10
Cadmium	less than 10
Chromium	less than 10
Ethylbenzene	less than 10

Formaldehyde	less than 10
Lead	less than 10
Manganese	less than 10
Mercury	less than 10
Nickel	less than 10
Quinone	less than 10
Toluene	less than 10
Polycyclic Organic Matter	less than 10
Xylene	less than 10
TOTAL	less than 25

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM_{10}, SO_2, and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) 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. This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2.

Potential to Emit After Issuance

The source, issued a FESOP on December 11, 1996, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. (F151-5409-03265; issued on December 11, 1996).

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
hot oil heater (insignificant)	0.07	0.12	2.42	0.03	0.41	0.70	negl.
aggregate drying(1)	36.71(2)	76.00(3)	96.58	8.32	18.03	27.99	7.14
conveying/ handling(4)	0.63	0.30	--	--	--	--	--
unpaved roads(4)	64.41	22.54	--	--	--	--	--
storage(4)	0.11	0.04	--	--	--	--	--
cold mix storage(5)	--	--	--	90.65	--	--	--
Total Emissions	101.93	99.00	99.00	99.00	18.44	28.69	7.14

(1) Limited PTE reflects fuel oil usage limitation.
(2) Based on 326 IAC 6-1-2 allowable (0.03 gr/dscf).
(3) Maximum allowable PM10 emissions in order to comply with 326 IAC 2-8 (FESOP) is 17.37 lbs per hour, which is equivalent to 76.08 tons per year.
(4) Potential to emit after controls.
(5) Maximum allowable VOC emissions in order to comply with 326 IAC 2-8 (FESOP).

County Attainment Status

The source is located in Noble County.

Pollutant	Status
PM-10	attainment
SO_2	attainment
NO_2	attainment
Ozone	attainment
CO	attainment
Lead	attainment

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

Portable Source

(a) Initial Location
This is a portable source and its current location is 819 North Orange Street, Albion, Indiana 46701.

(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, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.

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

Federal Rule Applicability

(a) This source is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90 through 60.93, Subpart I) “Standards of Performance for Hot Mix Asphalt Facilities” because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973. This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. The source will comply with this rule by using a knockout box and baghouse in series to limit particulate matter emissions to less than 0.04 gr/dscf (see Appendix A, page 8 of 10, for detailed calculations).

(b) The two (2) 11,000 gallon liquid asphalt storage tanks (Tanks 14A and 14B) and the one (1) 11,000 gallon No. 2 distillate fuel storage tank (Tank 15) are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) “Standards of Performance for Volatile Organic Liquid Storage Vessels” since the tanks were installed after July 23, 1984, and have storage capacities greater than 40 cubic meters. However, the tanks have a vapor pressure of less than 15.0 kPa, therefore, the tanks are subject to only 40 CFR Part 60.116b, paragraphs (a), (b) and (d) which require record keeping.

(c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

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

This source, constructed in 1989, is not subject to the requirements of these rules. As shown in the Potential to Emit After Issuance table on page 4 above, the allowable emissions of all regulated pollutants, except PM, are less than 100 tons per year after application of all federally enforceable emission limits. The allowable emissions of PM are less than 250 tons per year after application of all federally enforceable emission limits. The requirements of 326 IAC 2-3 (Emission Offset) apply to major sources or major modifications constructed in an area designated as non-attainment. Since there are no attainment status designations for PM, the requirements of this rule do not apply to PM emissions. Also, since this source is approved for operation in all areas of Indiana except in severe non-attainment areas for ozone (at this time these areas are Lake and Porter Counties), the applicability threshold for 326 IAC 2-3 (Emission Offset) is 100 tons per year for PM-10, SO_2, VOC, NOx, and CO. Therefore the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply.

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 PTE 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). No facilities with an uncontrolled PTE of 10 tons per year of any single HAP and 25 tons per year of the combination of HAPs have been constructed or reconstructed since July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) still do not apply to this source.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 because it is a portable source and can be located in any of the counties listed in 326 IAC 2-6-1(a). The potential to emit any criteria pollutant, including federally enforceable limits, is less than 100 tons per year. However, this source still has the potential to emit NO_X and VOC into the air at levels greater than ten (10) tons per year, therefore, the source is subject to this rule. Pursuant to this rule, the owner/operator of this source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 2-8-4 (FESOP)

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

(a) The No. 2 distillate fuel oil and No. 2 distillate fuel oil equivalents shall be limited to 2,798,986 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month, so that SO_2 emissions are limited below 100 tons per year.

(b) The use of emulsified asphalt with solvent liquid binder, containing a maximum 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent evaporating, shall not exceed 195.4 tons of VOC solvent per twelve (12) consecutive month period, rolled on a monthly basis, so that VOC emissions are limited to less than 100 tons per year.

(c) PM-10 emissions from the aggregate dryer shall be limited to 0.124 pound PM-10 per ton of asphalt mix equivalent to 17.35 pounds per hour, when based on a maximum throughput of 140 tons of asphalt mix per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 76.00 tons per year for a source-wide total potential to emit of less than 100 tons per year. The source will comply with the PM-10 emission limit by utilizing a knockout box and baghouse in series for controlling PM-10 emissions to less than 17.35 pounds per hour from the aggregate dryer.

(d) The only NO_X emissions from this source are from the aggregate dryer burner (combustion) and hot oil heater (insignificant activity) which have the uncontrolled potential to emit NO_X of less than one hundred (100) tons per year. This source therefore does not need to limit NO_X emissions to comply with 326 IAC 2-8-4 (FESOP).

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

326 IAC 5-1 (Opacity Limitations)

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

(a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).

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

This source is subject to 326 IAC 6-5 for fugitive particulate matter emissions. Pursuant to 326 IAC 6-5, for any new source which has not received all the necessary preconstruction approvals before December 13, 1985, a fugitive dust control plan must be submitted, reviewed and approved. The fugitive dust control plan for this source includes the following:

(a) 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.

(b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:
(1) maintaining minimum size and number of stock piles of aggregate;
(2) treating around the stockpile area with emulsified asphalt;
(3) treating around the stockpile area with water;
(4) treating the stockpiles with water.

(c) Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following method on an as needed basis:
(1) applying water at the feed and the intermediate points.

(d) Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:
(1) minimize the vehicular distance between transfer points;
(2) enclose the transfer points;
(3) apply water on transfer points on an as needed basis.

(e) Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:
(1) tarping the aggregate hauling vehicles;
(2) maintain vehicle bodies in a condition to prevent leakage;
(3) spray the aggregates with water;
(4) maintain a 10 MPH speed limit in the yard.

(f) Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:
(1) reduce free fall distance to a minimum;
(2) reduce the rate of discharge of the aggregate;
(3) spray the aggregate with water on an as needed basis.

State Rule Applicability - Individual Facilities

The applicability determination that follows is based on that conducted for original FESOP F151-5409-03265, issued on December 11, 1996 and on the fact that this source has been designated as a portable source. The requirements related to portable sources have been added to this FESOP renewal.

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

The particulate matter emissions from the aggregate mixing and drying operation are subject to the requirements of 326 IAC 6-1-2 (Particulate Emissions Limitations). The rule requires that the particulate matter emissions be limited to 0.03 gr/dscf. This is equivalent to a particulate matter emission rate of 8.38 pounds per hour from the aggregate dryer. The knockout box and baghouse in series for the aggregate dryer shall be in operation at all times the aggregate dryer is in operation, in order to comply with this limit (see Appendix A, page 8 of 10, for detailed calculations).

As a result of further review of the rule applicability criteria listed in 326 IAC 6-3-1, the rule applicability of 326 IAC 6-3-2 has changed as follows:

326 IAC 6-3-2 (Process Operations)

The aggregate mixing and drying operation is not subject to the requirements of 326 IAC 6-3-2. This rule does not apply if the limitation established in the rule is less stringent than applicable limitations in 326 IAC 6-1 or 326 IAC 12. Since the applicable PM emission limits established by 326 IAC 6-1-2 (8.38 pounds per hour) and 326 IAC 12, 40 CFR 60, Subpart I (11.17 pounds per hour), are lower than the PM limit that would be established by 326 IAC 6-3-2 (54.72 pounds per hour, see Appendix A, page 8 of 10), the more stringent limits apply and the limit pursuant to 326 IAC 6-3-2 does not apply.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The sulfur dioxide emissions from the 49 MMBtu/hr dryer burning distillate oil shall be limited to 0.5 lb/MMBtu heat input. This equates to a fuel oil sulfur content limit of 0.5%. Therefore, the sulfur content of the fuel must be less than or equal to 0.5% in order to comply with this rule (See Appendix A, page 8 of 10 for detailed calculations). The source will comply with this rule by using No. 2 distillate oil with a sulfur content of 0.5% or less.

The 1.12 MMBtu/hr hot oil heater is not subject to the requirements of this rule because potential SO_2 emissions from this unit are less than 25 tons per year.

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

This source is subject to 326 IAC 7-1 for the 49 MMBtu per hour dryer because it has the potential to emit (25) twenty-five tons per year of SO2. As such, and pursuant to 326 IAC 7-2 (Compliance), the source shall demonstrate compliance with the 326 IAC 7-1 SO_2 emission limitation by recording, and submitting to the OAQ upon request, the information as specified, including fuel sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average. This source will continue to comply with this requirement.

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

This source is not subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of greater than or equal to 25 tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). The use of emulsified asphalt to manufacture stockpile mix, which is the only source of potential VOC emissions greater than 25 tons per year, is regulated by the provisions of 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), therefore, it is not subject to the requirements of this rule.

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

This source, constructed in 1989, is subject to 326 IAC 8-5-2 because this rule applies to any paving application constructed after January 1, 1980 located anywhere in the state. As such, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except for the following purposes:

1) penetrating prime coating
2) stockpile storage
3) application during the months of November, December, January, February and March.

This source produces emulsified asphalt on a limited basis. The emulsified asphalt contains a maximum of 1.5% oil distillate by volume. It is only manufactured during the winter months and is in compliance with 326 IAC 8-5-2.

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

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

329 IAC 13-8 (Used Oil Requirements)

This source is not subject to this rule because it does not burn used oil.

Testing Requirements

All testing requirements from previous approvals were incorporated into this FESOP.

To demonstrate compliance with the PM, PM10 and Opacity limits established in Conditions D.1.2(a) and (b), D.1.3, and D.1.4 of the permit, PM and PM-10 testing shall be performed on the aggregate mixer/dryer baghouse stack exhaust. This test shall be performed no later than 90 days after issuance of this permit because PM and PM10 testing at the hot asphalt batch mixer cyclone/scrubber exhaust stack was *not* conducted in accordance with Condition D.1.6 of FESOP 151-5409-03265.

Compliance Requirements

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

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

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

(a) Visible emissions notations of the aggregate dryer stack exhaust, conveyors, and transfer points, shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

(b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer, mixer, and burner, at least once per shift when the aggregate dryer, mixer, and burner are 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 - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(c) An inspection shall be performed in the last month of each calender quarter of all bags controlling the aggregate dryer/burner. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

(d) In the event that bag failure has been observed:

(1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

(2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the baghouse for the aggregate dryer must operate properly to ensure compliance with 40 CFR Part 60.90 (Subpart I- Standards of Performance for Hot Mix Asphalt Facilities), 326 IAC 6-1-2 (Particulate Emissions Limitations), and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this portable batch mix asphalt plant shall be subject to the conditions of the attached proposed **(FESOP No.: F113-14047-03265).**

Company Name:	Brooks Construction Company, Inc.
Initial Plant Location:	819 North Orange Street, Albion, IN 46701
County:	Noble
Application Received:	March 6, 2001
Permit Reviewer:	Linda Quigley/EVP

**** hot oil heater****

The following calculations determine the amount of emissions created by natural gas combustion, from hot oil heating, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2 (Supplement D 3/98).

Criteria Pollutant: 1.12 MMBtu/hr * 8,760 hr/yr / 1000 Btu/cf * 2,000 lb/ton * Ef (lb/MMcf) = (ton/yr)

P M:	1.90	lb/MMcf =	**0.01**	**ton/yr**
P M-10:	7.60	lb/MMcf =	**0.04**	**ton/yr**
S O 2:	0.6	lb/MMcf =	**0.00**	**ton/yr**
N O x:	100.0	lb/MMcf =	**0.49**	**ton/yr**
V O C:	5.5	lb/MMcf =	**0.03**	**ton/yr**
C O:	84.0	lb/MMcf =	**0.41**	**ton/yr**

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.49 % sulfur, from hot oil heating, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-3, and 1.3-7.

Criteria Pollutant: 1.12 MMBtu/hr * 8,760 hr/yr / 140,000 Btu/gal * 2,000 lb/ton * Ef (lb/1,000 gal) = (ton/yr)

P M:	2.0	lb/1000 gal =	**0.07**	**ton/yr**
P M-10:	3.3	lb/1000 gal =	**0.12**	**ton/yr**
S O 2:	69.0	lb/1000 gal =	**2.42**	**ton/yr**
N O x:	20.0	lb/1000 gal =	**0.70**	**ton/yr**
V O C:	0.34	lb/1000 gal =	**0.01**	**ton/yr**
C O:	5.0	lb/1000 gal =	**0.18**	**ton/yr**

The maximum potential emissions of the hot oil heater due to fuel combustion are the following:

Criteria Pollutant:			**Worst Case Fuel**
P M:	**0.07**	**ton/yr**	No. 2 Fuel Oil
P M-10:	**0.12**	**ton/yr**	No. 2 Fuel Oil
S O 2:	**2.42**	**ton/yr**	No. 2 Fuel Oil
N O x:	**0.70**	**ton/yr**	No. 2 Fuel Oil
V O C:	**0.03**	**ton/yr**	Natural Gas
C O:	**0.41**	**ton/yr**	Natural Gas

**** aggregate dryer burner****

The following calculations determine the amount of emissions created by natural gas combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2 (Supplement D 3/98).

Criteria Pollutant:

$$\frac{49 \text{ MMBtu/hr} * 8{,}760 \text{ hr/yr}}{1000 \text{ Btu/cf} * 2{,}000 \text{ lb/ton}} * \text{Ef (lb/MMcf)} = \text{(ton/yr)}$$

P M:	1.90	lb/MMcf =	**0.41**	**ton/yr**
P M-10:	7.60	lb/MMcf =	**1.63**	**ton/yr**
S O 2:	0.6	lb/MMcf =	**0.13**	**ton/yr**
N O x:	100.0	lb/MMcf =	**21.46**	**ton/yr**
V O C:	5.5	lb/MMcf =	**1.18**	**ton/yr**
C O:	84.0	lb/MMcf =	**18.03**	**ton/yr**

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.49 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-2, 1.3-4, and 1.3-7.

Criteria Pollutant:

$$\frac{49 \text{ MMBtu/hr} * 8{,}760 \text{ hr/yr}}{140{,}000 \text{ Btu/gal} * 2{,}000 \text{ lb/ton}} * \text{Ef (lb/1,000 gal)} = \text{(ton/yr)}$$

P M:	2.0	lb/1000 gal =	**3.07**	**ton/yr**
P M-10:	3.3	lb/1000 gal =	**5.06**	**ton/yr**
S O 2:	69.0	lb/1000 gal =	**105.80**	**ton/yr**
N O x:	20.0	lb/1000 gal =	**30.66**	**ton/yr**
V O C:	0.34	lb/1000 gal =	**0.52**	**ton/yr**
C O:	5.0	lb/1000 gal =	**7.67**	**ton/yr**

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

Criteria Pollutant:			**Worst Case Fuel**
P M:	**3.07**	**ton/yr**	No. 2 Fuel Oil
P M-10:	**5.06**	**ton/yr**	No. 2 Fuel Oil
S O 2:	**105.80**	**ton/yr**	No. 2 Fuel Oil
N O x:	**30.66**	**ton/yr**	No. 2 Fuel Oil
V O C:	**1.18**	**ton/yr**	Natural Gas
C O:	**18.03**	**ton/yr**	Natural Gas

*** * aggregate drying: batch-mix plant * ***

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-1, 11.1-5 and
for a batch mix dryer which has the capability of combusting either fuel oil or natural gas:

Pollutant:	Ef	lb/ton x	140	ton/hr x	8,760 hr/yr
			2,000	lb/ton	

Criteria Pollutant:

P M:	32	lb/ton =	**19,622.40**	**ton/yr**
P M-10:	4.5	lb/ton =	**2,759.40**	**ton/yr**
V O C:	0.011647	lb/ton =	**7.14**	**ton/yr**

The VOC emission factor for aggregate drying includes organic HAP emissions which are assumed to be VOC.

*** * conveying / handling * ***

The following calculations determine the amount of emissions created by material handling, based on 8.760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

E =	k*(0.0032)*(((U/5)^1.3)/((M/2)^1.4))	
=	9.69E-04	lb PM-10/ton
	2.05E-03	lb PM/ton
where k =	0.35	(particle size multiplier for <10um)
	0.74	(particle size multiplier for <30um)
U =	12	mph mean wind speed
M =	5.0	material moisture content (%)

140 ton/hr * 8,760 hrs/yr * Ef (lb/ton of material) = (ton/yr)
2,000 lb/ton

Total PM 10 Emissions:	**0.59**	**tons/yr**
Total PM Emissions:	**1.26**	**tons/yr**

*** * unpaved roads * ***

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

I. Trucks

3	trip/hr x	
0.1	mile/trip x	
2	(round trip) x	
8760	hr/yr =	5256 miles per year

Ef =	k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]*[(365-p)/365]*(S/15)	
=	1.72	lb PM-10/mile
=	8.15	lb PM/mile
where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	7.1	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	24	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
S =	10.0	mph speed limit
p =	125.0	number of days with at least 0.01 in. of precipitation per year

PM: 8.15 lb/mi x 5256 mi/yr = / 2000 lb/ton **21.41 tons/yr**

PM10: 35% of PM = **7.49 tons/yr**

II. Front End Loader

22	trip/hr x	
0.076	mile/trip x	
2	(round trip) x	
8760	hr/yr =	29293.44 miles per year

Ef =	k*[(s/12)^0.8]*[(W/3)^b]/[(M/0.2)^c]*[(365-p)/365]*(S/15)	
=	1.55	lb PM-10/mile
=	7.33	lb PM/mile
where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
s =	7.1	mean % silt content of unpaved roads
b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)
c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)
W =	24	tons average vehicle weight
M =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)
S =	9.0	mph speed limit
p =	125.0	number of days with at least 0.01 in. of precipitation per year

PM: 7.33 lb/mi x 29293.44 mi/yr = / 2000 lb/ton **107.40 tons/yr**

PM10: 35% of PM = **37.59 tons/yr**

Total PM Emissions From Unpaved Roads = 128.82 tons/yr
Total PM10 Emissions From Unpaved Roads = 45.09 tons/yr

*** * storage * ***

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

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	P M Emissions tons/yr	P M-10 Emissions tons/yr
Sand *	1.1	N/A *	N/A *	0.00	0.00
Gravel *	1.0	N/A *	N/A *	0.00	0.00
Stone	1.1	0.976	25,500	0.23	0.08
Total				**0.23**	**0.08**

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

Sample Calculation:

Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
= 1.27 lb/acre/day
where s = 1.1 % silt
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

Ep (storage) = Ef * sc * (20 cuft/ton) * (365 day/yr) / (2.000 lb/ton)*(43,560 sqft/acre)*(12 ft)
where sc = 25,500 tons storage capacity

PM = 0.23 tons/yr **P M-10:** 35% of PM = **0.08 tons/yr**

*** *cold mix VOC storage emissions * ***

The following calculations determine the amount of VOC emissions created by the application of stockpile mix containing emulsified asphalt, based on 8,760 hours of use.

VOC Emission Factor = 0.03248 weight percent flash-off of cold mix
Potential Throughput (tons/yr) = 1,226,400 tons/yr stockpile mix

Potential VOC Emissions (tons/yr) = Potential Throughput (tons/yr) * wt percent flash-off
Potential VOC Emissions = 39,833.47 tons/yr

* Weight percent flash-off is based on 7.0 percent by weight of emulsified asphalt in stockpile mix.

*** * summary of source emissions before controls * ***

Criteria Pollutants:

P M:	**19,755.83 ton/yr**	
P M-10:	**2,810.33 ton/yr**	
S O 2:	**108.21 ton/yr**	
N O x:	**31.36 ton/yr**	
V O C:	**39,841.82 ton/yr**	(VOCs include HAPs from aggregate drying operation)
C O:	**18.44 ton/yr**	

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

In order to qualify for the FESOP program, this facility must limit SO2, PM-10 and VOC emissions to less than 100 tons per ye
Consequently, SO2 emissions from the aggregate dryer must be limited to 96.58 tons per year (99.0 ton/yr - 2.42 ton/yr from hot oil heater).

The following calculations determine the amount of emissions created by natural gas combustion based on a maximum unit capacity of 429.24 MMcf/yr for natural gas combustion.

* Emissions of PM and PM-10 from aggregate drying operations are controlled by the following:
by a knockout box with a 50.00 % control efficiency.
followed by a baghouse with a 99.90 % control efficiency.

Natural Gas: 49 MMBtu/hr * 8,760 hr/yr / 1000 Btu/cf * 2,000 lb/ton * Ef (lb/MMcf) = (ton/yr)

P M:	1.9	lb/MMcf =	**2.04E-04**	**ton/yr ***
P M-10:	7.6	lb/MMcf =	**8.16E-04**	**ton/yr ***
S O 2:	0.6	lb/MMcf =	**0.13**	**ton/yr**
N O x:	100.0	lb/MMcf =	**21.46**	**ton/yr**
V O C:	5.5	lb/MMcf =	**1.18**	**ton/yr**
C O:	84.0	lb/MMcf =	**18.03**	**ton/yr**

The following calculations determine the amount of emissions created by distillate fuel oil @ 0.49 % sulfur with a fuel usage limitation of 2,798,986 gal/yr.

No. 2 Distillate Oil: 2,798,986 gal/yr / 2,000 lb/ton * Ef (lb/1,000 gal) = (ton/yr)

P M:	2.0	lb/1000 gal =	**2.78E-01**	**ton/yr ***
P M-10:	3.3	lb/1000 gal =	**4.60E-01**	**ton/yr ***
S O 2:	69.0	lb/1000 gal =	**96.58**	**ton/yr**
N O x:	20.0	lb/1000 gal =	**27.99**	**ton/yr**
V O C:	0.34	lb/1000 gal =	**0.48**	**ton/yr**
C O:	5.0	lb/1000 gal =	**7.00**	**ton/yr**

Criteria Pollutant:

					Worst Case Fuel
P M:	2.0	lb/MMcf =	**2.78E-01**	**ton/yr ***	No. 2 Fuel Oil
P M-10:	3.3	lb/MMcf =	**4.60E-01**	**ton/yr ***	No. 2 Fuel Oil
S O 2:	69.0	lb/1000 gal =	**96.58**	**ton/yr**	No. 2 Fuel Oil
N O x:	20.0	lb/MMcf =	**27.99**	**ton/yr**	No. 2 Fuel Oil
V O C:	5.5	lb/MMcf =	**1.18**	**ton/yr**	Natural Gas
C O:	84.0	lb/MMcf =	**18.03**	**ton/yr**	Natural Gas

Fuel Usage Limitations

Fuel Oil: #2 distillate oil

96.58 tons SO2/year limited / 105.80 tons SO2/year potential * 3066.00 Kgals year potential = 2798.99 Kgals year limited

Fuel equivalence limit for natural gas based on SO2 emissions from #2 distillate fuel oil:

0.13 n.g. potential emis. (ton/yr) / 429.24 n.g. potential usage (MMCF/yr) 105.80 #2 F.O. potential emissions (ton/yr) / 3066.00 #2 F.O. potential usage (kgal/yr)

= 0.0088 Kgal primary fuel

MMCF n.g. burned

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

	misc. combustion sources:		nonfugitive			
P M:	0.07	ton/yr x	100.00%	emitted after controls =	**0.07**	**ton/yr**
P M-10:	0.12	ton/yr x	100.00%	emitted after controls =	**0.12**	**ton/yr**
	aggregate drying:		nonfugitive			
P M:	19,622	ton/yr x	0.05%	emitted after controls =	**9.81**	**ton/yr**
P M-10:	2,759	ton/yr x	0.05%	emitted after controls =	**1.38**	**ton/yr**
	loading & conveying:		fugitive			
P M:	1.26	ton/yr x	50%	emitted after controls =	**0.63**	**ton/yr**
P M-10:	0.59	ton/yr x	50%	emitted after controls =	**0.30**	**ton/yr**
	unpaved roads:		fugitive			
P M:	128.82	ton/yr x	50%	emitted after controls =	**64.41**	**ton/yr**
P M-10:	45.09	ton/yr x	50%	emitted after controls =	**22.54**	**ton/yr**
	storage piles:		fugitive			
P M:	0.23	ton/yr x	50%	emitted after controls =	**0.11**	**ton/yr**
P M-10:	0.08	ton/yr x	50%	emitted after controls =	**0.04**	**ton/yr**
	cold mix VOC storage:		fugitive			
VOC:	39,833.47	ton/yr	0.23%	emitted after controls =	**90.65**	**ton/yr**

* This is equivalent to 195.37 tons of emulsified asphalt binder solvent used per year based on 46.4% of VOC solvent evaporating.

*** * summary of source emissions after controls * ***

Criteria Pollutant:	**Non-Fugitive**	**Fugitive**	**Total**
PM:	**10.16 ton/yr**	**65.15 ton/yr**	**75.31 ton/yr**
PM-10:	**1.95 ton/yr**	**22.88 ton/yr**	**24.83 ton/yr**
S O 2:	**99.00 ton/yr**	**0.00 ton/yr**	**99.00 ton/yr**
N O x:	**28.69 ton/yr**	**0.00 ton/yr**	**28.69 ton/yr**
V O C:	**8.35 ton/yr**	**90.65 ton/yr**	**99.00 ton/yr**
C O:	**18.44 ton/yr**	**0.00 ton/yr**	**18.44 ton/yr**

*** * miscellaneous * ***

326 IAC 7 Compliance Calculations:

The following calculations determine the maximum sulfur content of distillate fuel oil allowable by 326 IAC 7:

0.5	lb/MMBtu x	140,000	Btu/gal=	70	lb/1000gal
70	lb/1000gal /	142	lb/1000 gal =	0.49	%

Sulfur content must be less than or equal to 0.49% to comply with 326 IAC 7.

326 IAC 6-3-2 Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates in excess of 30 tons per hour:

limit = 55 * (140 ^ 0.11) - 40 = 54.72 lb/hr or
239.67 ton/yr

Since the emission limits pursuant to 326 IAC 6-1-2 of 43.55 tons per year and Subpart I of 58.07 tons per year are more stringent than this limit, the limit pursuant to 326 IAC 6-3-2 does not apply. The emission limits pursuant to 326 IAC 6-1-2 and Subpart I shall also render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

PM-10 Emission Limit:

(99.0 tons PM-10/yr - 23.00 tons PM-10/yr from other sources)
= 76.0 tons PM-10/y = 17.35 lbs/hr
PM-10 emissions from the aggregate dryer are controlled to 1.38 tons/yr < 76.0 tons/yr (Will comply)

Compliance with NSPS (326 IAC 12; 40 CFR 60.90 to 60.93, Subpart I) and 326 IAC 6-1-2

The following calculations determine compliance with 326 IAC 6-1-2 (for counties listed in 326 IAC 6-1-7) and NSPS, which limits stack emissions from asphalt plants to 0.03 gr/dscf (when in counties listed in 326 IAC 6-1-7), and 0.04 gr/dscf (when not located in those counties):

9.81	ton/yr *	2000	lb/ton *	7000	gr/lb =	0.008	gr/dscf (Will comply)
525,600	min/yr *	32,592	dscf/min				

Allowable particulate emissions under 326 IAC 6-1-2 equate t	36.71	tons per year, or	8.38	lbs/hr
Allowable particulate emissions under NSPS equate to	48.94	tons per year, or	11.17	lbs/hr

Note:
SCFM = 44,500 acfm * (460 + 60) / (460 + 250)
= 32,592 scfm

Hazardous Air Pollutants (HAPs)

** aggregate dryer burner**

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.49 % sulfur, from the aggregate dryer burner, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-11.

Hazardous Air Pollutants (HAPs): 49 MMBtu/hr * 8760 hr/yr / 2,000 lb/ton * Ef (lb/10^12 Btu) = (ton/yr)

			Potential To Emit	Limited Emissions
Arsenic	4.2	lb/10^12 Btu =	9.01E-04 ton/yr	4.51E-07 ton/yr
Beryllium:	2.5	lb/10^12 Btu =	5.37E-04 ton/yr	2.68E-07 ton/yr
Cadmium:	11	lb/10^12 Btu =	2.36E-03 ton/yr	1.18E-06 ton/yr
Chromium:	67	lb/10^12 Btu =	1.44E-02 ton/yr	7.19E-06 ton/yr
Lead:	8.9	lb/10^12 Btu =	1.91E-03 ton/yr	9.55E-07 ton/yr
Manganese:	14	lb/10^12 Btu =	3.00E-03 ton/yr	1.50E-06 ton/yr
Mercury:	3	lb/10^12 Btu =	6.44E-04 ton/yr	3.22E-07 ton/yr
Nickel:	170	lb/10^12 Btu =	3.65E-02 ton/yr	1.82E-05 ton/yr
		Total HAPs =	6.02E-02 ton/yr	3.01E-05 ton/yr

* * aggregate drying: batch-mix plant * *

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-9 for a batch mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (natural gas combustion).

Pollutant: Ef lb/ton x 140 ton/hr x 8760 hr/yr / 2000 lb/ton

Hazardous Air Pollutants (HAPs):			Potential To Emit	Limited Emissions
Acetaldehyde:	6.40E-04	lb/ton =	0.39 ton/yr	0.39 ton/yr
Benzene:	3.50E-04	lb/ton =	0.21 ton/yr	0.21 ton/yr
Ethylbenzene:	3.30E-03	lb/ton =	2.02 ton/yr	2.02 ton/yr
***Formaldehyde:**	8.60E-04	lb/ton =	0.53 ton/yr	0.53 ton/yr
Quinone:	2.70E-04	lb/ton =	0.17 ton/yr	0.17 ton/yr
Toluene:	1.80E-03	lb/ton =	1.10 ton/yr	1.10 ton/yr
****Total Polycyclic Organic Matter (POM):**	1.270E-04	lb/ton =	0.08 ton/yr	0.08 ton/yr
Xylene:	4.30E-03	lb/ton =	2.64 ton/yr	2.64 ton/yr
		Total HAPs =	7.14 ton/yr	7.14 ton/yr

* The emission factor for formaldehyde from fuel oil firing (0.0032 lb/ton) exceeds the formaldehyde emission factor from natural gas firing (0.00086 lb/ton). Consequently, the worst case emissions for formaldehyde are 1.96 ton/yr. However, since the VOC emissions from natural gas combustion exceed the VOC emissions from fuel oil firing, the natural gas emission factor was used to avoid overestimating total VOC emissions.

** total POM includes 2-Methylnapthalene, Acenanapthalene, Acenaphthalene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthrene, Benzo(k)fluoranthene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, and Pyrene.

*** * summary of source HAP emissions potential to emit * ***

Hazardous Air Pollutants (HAPs):

Acetaldehyde:	**0.392**	ton/yr
Arsenic:	**0.001**	ton/yr
Benzene:	**0.215**	ton/yr
Beryllium:	**0.001**	ton/yr
Cadmium:	**0.002**	ton/yr
Chromium:	**0.014**	ton/yr
Ethylbenzene:	**2.024**	ton/yr
Formaldehyde:	**0.527**	ton/yr
Lead:	**0.002**	ton/yr
Manganese:	**0.003**	ton/yr
Mercury:	**0.001**	ton/yr
Nickel:	**0.036**	ton/yr
Quinone:	**0.166**	ton/yr
Toluene:	**1.104**	ton/yr
Total POM:	**0.078**	ton/yr
Xylene:	**2.637**	ton/yr
Total:	**7.202**	**ton/yr**

*** * summary of source HAP limited emissions * ***

Hazardous Air Pollutants (HAPs):

Acetaldehyde:	**0.392**	ton/yr
Arsenic:	**0.000**	ton/yr
Benzene:	**0.215**	ton/yr
Beryllium:	**0.000**	ton/yr
Cadmium:	**0.000**	ton/yr
Chromium:	**0.000**	ton/yr
Ethylbenzene:	**2.024**	ton/yr
Formaldehyde:	**0.527**	ton/yr
Lead:	**0.000**	ton/yr
Manganese:	**0.000**	ton/yr
Mercury:	**0.000**	ton/yr
Nickel:	**0.000**	ton/yr
Quinone:	**0.166**	ton/yr
Toluene:	**1.104**	ton/yr
Total Polycyclic Organic Matter:	**0.078**	ton/yr
Xylene:	**2.637**	ton/yr
Total:	**7.142**	**ton/yr**