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

**Onyx Paving Company
6201 East County Road 525N
Seymour, Indiana 47274**

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

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

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

Operation Permit No.: F 071-17214-03180	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: March 5, 2004 Expiration Date: March 5, 2009

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary hot mix asphalt production source.

Authorized Individual: President
Source Address: 6201 East County Road 525N, Seymour, Indiana 47274
Mailing Address: 101 N. Poplar Street, Seymour, Indiana 47274
General Source Phone: 812 522-9296
SIC Code: 2951
Source Location Status: Jackson
Attainment for all criteria pollutants
Source Status: Federally Enforceable State Operating Permit (FESOP)
Minor Source, under PSD 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)]

- (a) One (1) hot mix batch mixer, equipped with a cyclone and scrubber connected in series for particulate control, exhausting through Stack #2, constructed in 1968, capacity: 100 tons per hour.
- (b) One (1) natural gas-fired dryer-burner, rated at 40 million British thermal units per hour, exhausting through Stack #2, installed in 1986.
- (c) One (1) natural gas-fired hot oil heater rated at 1.5 million British thermal units per hour, exhausting through Stack #1, installed in 1986, replaced in-kind in 1996.
- (d) One (1) pug mill, installed in 1986, capacity: 2 tons of asphalt per batch.
- (e) Three (3) liquid asphalt storage tanks, installed in 1986, exhausting through Stack #1, capacity: 15,000, 10,000 and 10,000 gallons, respectively.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 British thermal units per hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 British thermal units per hour.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less

than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (e) Closed loop heating and cooling systems.
- (f) Heat exchanger cleaning and repair.
- (g) Paved and unpaved roads and parking lots with public access.

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

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

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

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

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

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

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

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

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

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

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

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

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

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

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

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

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

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

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

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

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

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

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

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

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

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

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

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

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

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

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

and

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, 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 Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than one hundred (100) pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (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.
 - (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 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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(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 April 03, 1998.

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 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

C.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 recordkeeping 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 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 ($\pm 2\%$) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a 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 ($\pm 2\%$) 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 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

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

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

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

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

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

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

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

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents

such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency

Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

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

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

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

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

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

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all recordkeeping 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 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) hot mix batch mixer, equipped with a cyclone and scrubber connected in series for particulate control, exhausting through Stack #2, constructed in 1968, capacity: 100 tons per hour.
- (b) One (1) natural gas-fired dryer-burner, rated at 40 million British thermal units per hour, exhausting through Stack #2, installed in 1986.
- (c) One (1) natural gas-fired hot oil heater rated at 1.5 million British thermal units per hour, exhausting through Stack #1, installed in 1986, replaced in-kind in 1996.
- (d) One (1) pug mill, installed in 1986, capacity: 2 tons of asphalt per batch.

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

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

D.1.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the batch mixer shall not exceed 51.3 pounds per hour when operating at a process weight rate of 100 tons per hour.

The pounds per hour limitation was calculated with the following equation:

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

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

D.1.2 Particulate Matter [326 IAC 2-2]

The PM emission rate from the hot mix batch mixer, exhausting through Stack #2 shall not exceed 20.0 pounds per hour. Compliance with this PM emission limit makes the requirements of 326 IAC 2-2, PSD, not applicable.

D.1.3 PM₁₀ [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, PM₁₀ emissions from the hot mix batch mixer, exhausting through Stack #2 shall not exceed 20.0 pounds per hour. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) and the PSD rules (326 IAC 2-2) do not apply.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-5-2] [326 IAC 2-2]

(a) Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: asphalt paving), the owner or operator shall: not cause or allow the use of asphalt emulsion containing more than seven (7.0) percent 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) No cutback asphalt or emulsified asphalt shall be used at this plant without prior approval from OAQ.

D.1.5 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 devices.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-8-5(1), (4)] [326 IAC 2-1.1-11]

The Permittee shall perform PM and PM₁₀ testing in order to demonstrate compliance with Conditions D.1.1, D.1.2, and D.1.3, utilizing methods as approved by the Commissioner. These tests shall be conducted prior to October 3, 2008, and shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C- Performance Testing.

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

D.1.7 Particulate Control

Pursuant to FESOP F 071-9643-03180, issued May 18, 1999, and in order to comply with Conditions D.1.1, D.1.2 and D.1.3, the cyclone and scrubber for particulate control shall be in operation and control emissions from the batch mixer at all times that the batch mixer is in operation.

D.1.8 Visible Emissions Notations

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

D.1.9 Parametric Monitoring

- (a) The Permittee shall record the total static pressure drop across the scrubber used in conjunction with the batch mixer process, at least once per shift when the dryer mixer is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C-

Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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.

- (b) The Permittee shall record the flow rate of the scrubbing liquor used in conjunction with the scrubber at least once per shift when the associated batch mixer is in operation. The flow rate across the scrubber shall be maintained within the range of 350 - 450 gallons per minute or a range established during the latest stack test. If the flow rate is outside of this range the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A flow rate reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the flow rate 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.1.10 Cyclone and Scrubber Inspections

An inspection shall be performed within the last month of each calendar quarter of all cyclones and scrubbers controlling the dryer mixer operation. Inspections required by this condition shall not be performed in consecutive months.

D.1.11 Cyclone and Scrubber Failure Detection

In the event that cyclone or scrubber failure has been observed:

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). Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.1.12 Record Keeping Requirements

- (a) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the batch mixer stack exhaust once per shift.
- (b) To document compliance with Condition D.1.9, the Permittee shall maintain the following:
- (1) Records of the total static pressure drop of the scrubber during normal operation once per shift.
 - (2) Records of the total static liquor flow rate of the scrubber during normal operation once per shift.

- (c) To document compliance with Condition D.1.10, the Permittee shall maintain records of the results of the inspections required under Condition D.1.10.
- (d) To document compliance with Condition D.1.5, the Permittee shall maintain of records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

- (e) Three (3) liquid asphalt storage tanks, installed in 1986, exhausting through Stack #1, capacity: 15,000, 10,000 and 10,000 gallons, respectively.

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

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

D.2.1 Record Keeping [326 IAC 12]

The 15,000 gallon liquid asphalt storage tank shall comply with 326 IAC 12. Pursuant to 326 IAC 12, the Permittee shall maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tank.

SECTION D.3

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] Insignificant Activities

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches soldering equipment, welding equipment. (326 IAC 6-3-2)

(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 Particulate [326 IAC 6-3-2]

Any change or modification that results in welding rod or wire usage of greater than 625 pounds per hour and or a material torch cut rate of greater than 3,400 inches per hour of stock will require prior approval from the IDEM OAQ and will subject these operations to the requirements of this rule.

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

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

Source Name: Onyx Paving Company
Source Address: 6201 East County Road 525N, Seymour, Indiana 47274
Mailing Address: 101 N. Poplar Street, Seymour, Indiana 47274
FESOP No.: F 071-17214-03180

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:

Phone:

Date:

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

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

Source Name: Onyx Paving Company
Source Address: 6201 East County Road 525N, Seymour, Indiana 47274
Mailing Address: 101 N. Poplar Street, Seymour, Indiana 47274
FESOP No.: F 071-17214-03180

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) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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

Page 2 of 2

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

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

Source Name: Onyx Paving Company
Source Address: 6201 East County Road 525N, Seymour, Indiana 47274
Mailing Address: 101 N. Poplar Street, Seymour, Indiana 47274
FESOP No.: F 071-17214-03180

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:	

- 9 No deviation occurred in this quarter.
 - 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____
- Form Completed By: _____
- Title/Position: _____
- Date: _____
- Phone: _____

Attach a signed certification to complete this report.

March 5, 2004

Indiana Department of Environmental Management Office of Air Quality

Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP) Renewal

Source Name: Onyx Paving Company
Source Location: 6201 East County Road 525N, Seymour, Indiana 47274
County: Jackson
FESOP: F 071-17214-03180
SIC Code: 2951
Permit Reviewer: Frank P. Castelli

On January 12, 2004, the Office of Air Quality (OAQ) had a notice published in The Tribune, Marlene, Indiana, stating that Onyx Paving Company had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to continue to operate a stationary hot mix asphalt plant. The notice also stated that OAQ proposed to issue a FESOP Renewal for this operation and provided information on how the public could review the proposed FESOP Renewal 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 FESOP Renewal should be issued as proposed.

Upon further review, the OAQ has decided to make the following changes to the FESOP Renewal. The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**):

Change 1: The word “performed” was removed in Condition C.14 as follows:

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.

Change 2: The word “source” was replaced by “Permittee” in Condition C.17 as follows:

C.17 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

Change 3: The grammar of Condition C.18 was corrected as follows:

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

(a) (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be **ten (10)** days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. **The notification shall also include** the status of the applicable compliance monitoring parameter with respect to normal, and the results of the **response** actions taken up to the time of notification.

- (b) (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be **ten (10)** days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. **The notification shall also include** the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

March 5, 2004

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:	Onyx Paving Company
Source Location:	6201 East County Road 525N, Seymour, Indiana 47274
County:	Jackson
SIC Code:	2951
Operation Permit No.:	F 071-17214-03180
Permit Reviewer:	Frank P. Castelli

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Onyx Paving Company relating to the operation of a stationary hot mix asphalt plant. Onyx Paving Company was issued FESOP F 071-9643-03180, on May 18, 1999.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) hot mix batch mixer, equipped with a cyclone and scrubber connected in series for particulate control, exhausting through Stack #2, constructed in 1968, capacity: 100 tons per hour.
- (b) One (1) natural gas-fired dryer-burner, rated at 40 million British thermal units per hour, exhausting through Stack #2, installed in 1986.
- (c) One (1) natural gas-fired hot oil heater rated at 1.5 million British thermal units per hour, exhausting through Stack #1, installed in 1986, replaced in-kind in 1996.
- (d) One (1) pug mill, installed in 1986, capacity: 2 tons of asphalt per batch.
- (e) Three (3) liquid asphalt storage tanks, installed in 1986, exhausting through Stack #1, capacity: 15,000, 10,000 and 10,000 gallons, respectively.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment Receiving New Source Review Approval

There are no new facilities proposed at this source during this review process.

Insignificant Activities

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 British thermal units per hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 British thermal units per hour.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (e) Closed loop heating and cooling systems.
- (f) Heat exchanger cleaning and repair.
- (g) Paved and unpaved roads and parking lots with public access.

Existing Approvals

The source has been operating under the following previous approval including:

FESOP F 071-9643-03180, issued on May 18, 1999.

All terms and conditions from previous approvals issued pursuant to the permitting programs approved into the State Implementation Plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous approvals are superseded upon issuance of this permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete FESOP Renewal application for the purposes of this review was received on April 28, 2003. Additional information was received on November 17, 2003.

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

Emission Calculations

See pages 1 through 12 of Appendix A of this document for detailed emissions calculations.

Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/year)
PM	14,051
PM ₁₀	1,979
SO ₂	0.109
VOC	2.00
CO	15.3
NO _x	18.2

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Unrestricted Potential Emissions (tons/year)
Lead	0.001
Total Remaining HAPs	3.83
TOTAL	3.83

- (a) The unrestricted potential emissions of PM₁₀ are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on May 18, 1999, 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 the Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential to Emit After Issuance (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Hot Mix Batch Mixer/Burner	87.8	87.8	0.105	0.964	14.7	17.5	3.33
Hot Oil Heater	0.012	0.050	0.004	0.036	0.552	0.657	0.00
Conveying/ Handling	5.98	0.598	0.000	0.000	0.000	0.000	0.00
Screening	19.2	1.92	0.000	0.000	0.000	0.000	0.00
Unpaved Roads	6.42	1.15	0.000	0.000	0.000	0.000	0.00
Storage Piles	0.048	0.017	0.000	0.000	0.000	0.000	0.00
Insignificant Activities	2.0	2.0	0.00	1.00	0.00	0.00	0.500
Total Emissions	122	93.6	0.109	1.509	6.36	25.4	3.83

The PM and assumed PM₁₀ emission rate limit of 0.087 grains per dry standard cubic foot (87.8 tons per year) is pursuant to OP 99-08-87-3180, issued on September 20, 1985, as calculated on page 9 of 12 of Appendix A.

County Attainment Status

The source is located in Jackson 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. Jackson County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) There are still no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) The hot mix batch asphalt manufacturing source is not subject to the New Source Perform-

ance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I) because the plant was constructed in 1968, prior to the June 11, 1973 applicability date of Subpart I.

- (c) The 15,000 gallon liquid asphalt storage tank, constructed after the July 23, 1984 applicability date of this rule is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) since its capacity is less than 75 cubic meters (19,813 gallons).
- (d) Both 10,000 gallon liquid asphalt storage tanks are exempt from the requirements of NSPS Subpart Kb since their individual capacities are less than 75 cubic meters (19,813 gallons).
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) applicable to this source

State Rule Applicability - Entire Source

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

This asphalt plant was originally constructed in 1968, prior to the August 7, 1977 applicability date of this rule. The plant was moved to its present location in 1986. The natural gas-fired dryer-burner, the natural gas-fired hot oil heater and pug mill were installed in 1986. There have been no further modifications to this plant except for a replacement in kind of the hot oil heater in 1996.

Pursuant to OP 99-08-87-3180, issued on September 20, 1985, the particulate matter emissions from the batch mixer were limited to 0.087 grains per dry standard cubic foot of outlet air and 17 pounds per hour, after control, equivalent to less than 74.5 tons per year which made the source minor pursuant to 326 IAC 2-2.

The original FESOP F 071-9643-03180, issued on May 18, 1999, limited both PM and PM₁₀ emissions from the batch mixer to 20.0 pounds per hour (87.8 tons per year). These limitations maintained the minor PSD status of this source. The proposed FESOP renewal retains these same PM and PM₁₀ limits. The PM and PM₁₀ emissions from the entire source are each limited to less than 250 tons per year and therefore, the source remains a minor source pursuant to 326 IAC 2-2.

326 IAC 2-6 (Emission Reporting)

This source is located in Jackson County and the potential to emit PM₁₀ is less than one hundred (100) tons per year. Therefore 326 IAC 2-6 does not apply.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM₁₀ shall be limited to less than one hundred (100) tons per year. In addition, the potential to emit of a single HAP is less than ten (10) tons per year and the potential to emit of the combination of all HAPs is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

Specifically, the amount of PM₁₀ from the hot mix batch mixer shall be limited to less than 20.0 pounds per hour, equivalent to 87.8 tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

Note that this source does not produce cutback asphalt. Prior IDEM, OAQ approval is required for this source to produce cutback asphalt.

326 IAC 5-1 (Opacity)

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

- (a) Opacity shall not exceed an average of forty percent (40%) 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 Part 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 Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This rule requires a fugitive dust plan to be submitted. The plan was submitted on April 3, 1998, was reviewed, and approved and consists of the following:

- (a) unpaved roads shall be controlled by treating with water on an as-needed basis,
- (b) dust from storage piles shall be controlled by one or more of the following measures:
 - (1) treating the stockpile area with water on an as-needed basis,
 - (2) treating the stockpiles with water on an as-needed basis, or
 - (3) maintain minimum size and number of aggregate storage piles.

State Rule Applicability - Individual Facilities

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

Pursuant to FESOP F 071-9643-03180, issued on May 18, 1999, the particulate from the batch mixer and pugmill shall not exceed 51.3 pounds per hour when operating at a process weight rate of 100 tons per hour. This limitation is based upon the following:

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

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

The cyclone connected in series with the wet scrubber shall be in operation at all times the hot mix batch mixer is in operation, in order to comply with this limit.

326 IAC 8-5-2 (Miscellaneous Operations: asphalt paving)

This rule applies to any paving application in the State of Indiana. Pursuant to this rule no person shall cause or allow the use of asphalt emulsion containing more than seven percent oil distillate by volume of emulsion for any paving application except the following purposes:

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

The applicant has agreed to limit the percent diluent in the liquid asphalt binder to seven (7) percent and therefore, the source will comply with this rule.

326 IAC 12 (New Source Performance Standards)

- (a) The 15,000 gallon liquid asphalt storage tank shall comply with 326 IAC 12. Pursuant to 326 IAC 12, the Permittee shall maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tank.
- (b) Both 10,000 gallon liquid asphalt storage tanks are not subject to the requirements of 326 IAC 12 since their individual capacities are less than 40 cubic meters (10,567 gallons).

State Rule Applicability - Insignificant Activities

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

The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment are not subject to this rule since the welding rod and/or wire consumed is less than 625 pounds per day and the material cut is less than 3,400 inches per hour of stock at a one (1) inch thickness.

Any change or modification that results in welding rod or wire usage of greater than 625 pounds per hour and or a material torch cut rate of greater than 3,400 inches per hour of stock will require prior approval from the IDEM OAQ and will subject these operations to the requirements of this rule.

Testing Requirements

All testing requirements from previous approvals were incorporated into this FESOP. The stack test required by the original FESOP issued on May 18, 1999 was required to be completed by May 18, 2000.

- (a) Previous Stack Tests

The stack performance test required by Condition D.1.5 of the F 071-9643-03180 issued on May 18, 1999 was to be performed within twelve (12) months of the issuance date. A stack test protocol was submitted on May 31, 2001, revised during August 2002 and resubmitting on September 15, 2003. The stack test was performed October 3, 2003.

The results from this test show that the PM emission rate from the batch mixer is 0.576 pounds per hour and the PM₁₀ emission rate is 0.614 pounds per hour.

Both PM and PM₁₀ emission rates are compliance with the 20.0 pounds of PM and PM₁₀ per hour.

(b) Proposed Stack Tests

The following stack test requirements are proposed for the batch mixer:

Stack test for PM to verify compliance with 326 IAC 6-3-2 and 326 IAC 2-2 as well as PM₁₀ to verify compliance the 20.0 pound per hour emission rate to satisfy the requirement of 326 IAC 2-8-4 and 326 IAC 2-2 by October 3, 2008.

Compliance Requirements

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

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

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

- (a) The Permittee shall record the total static pressure drop across the scrubber used in conjunction with the batch mixer process, at least once per shift when the batch mixer is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 3.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

- (b) The Permittee shall record the flow rate of the scrubbing liquor used in conjunction with the scrubber at least once per shift when the associated dryer mixer is in operation. The flow rate across the scrubber shall be maintained within the range of 350 - 450 gallons per minute or a range established during the latest stack test. If the flow rate is outside of this range the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A flow rate reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the flow rate 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.

- (c) Visible emissions notations of the batch mixer stack, transfer points and conveyors shall be performed during normal daylight operations once per shift. 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. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.
- (d) An inspection shall be performed within the last month of each calendar quarter of all cyclones and scrubbers controlling the batch mixer operation. Inspections required by this condition shall not be performed in consecutive months.
- (e) In the event that cyclone or scrubber failure has been observed:

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 proposed permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

These monitoring conditions are necessary because the cyclone and scrubber for the batch mixer must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations), 326 IAC 5-1 and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this stationary hot mix asphalt plant shall be subject to the conditions of the attached proposed FESOP Renewal No.: F 071-17214-03180.

Appendix A Emission Calculations

Company Name: Onyx Paving Company
Plant Location: 6201 East County Road 525N, Seymour, Indiana 47274
County: Jackson
FESOP Renewal: F 071-17214
Plt. ID: 071-03180
Date: 4/28/2003
Permit Reviewer: Frank P. Castelli

I. Potential Emissions

A. Source emissions before controls

**Hot Oil Heater on Oil
(oil/<100MMBTU/uncontrolled)**

The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ 0.5 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>141800.0</u> Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>0.000</u> tons/yr
PM-10	3.3 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	71.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.34 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

**Hot Oil Heater on Gas
(gas/<100MMBTU/uncontrolled)**

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	<u>1.500</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	1.9 lbs/MMcf =	<u>0.012</u> tons/yr
PM-10:	7.6 lbs/MMcf =	<u>0.050</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.004</u> tons/yr
N O x:	100.0 lbs/MMcf =	<u>0.657</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>0.036</u> tons/yr
C O:	84.0 lbs/MMcf =	<u>0.552</u> tons/yr

Dryer Burner

(gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	<u>40.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	1.9 lbs/MMcf =	<u>0.3329</u> tons/yr
P M-10:	7.6 lbs/MMcf =	<u>1.332</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.105</u> tons/yr
N O x:	100.0 lbs/MMcf =	<u>17.5200</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>0.964</u> tons/yr
C O:	84.0 lbs/MMcf =	<u>14.717</u> tons/yr

Dryer Burner

(gas/>100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	1.9 lbs/MMcf =	<u>0.000</u> tons/yr
P M-10:	7.6 lbs/MMcf =	<u>0.000</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.000</u> tons/yr
N O x:	280.0 lbs/MMcf =	<u>0.00</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>0.000</u> tons/yr
C O:	84.0 lbs/MMcf =	<u>0.000</u> tons/yr

Post-NSPS = 190
Subpart I (June 11 1973 -

Dryer Burner

(gas/>100MMBTU/low nox)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (low NOx burner = 140, flue gas recirculation = 100)

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	1.9 lbs/MMcf =	<u>0.000</u> tons/yr
P M-10:	7.6 lbs/MMcf =	<u>0.000</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.000</u> tons/yr
N O x:	140.0 lbs/MMcf =	<u>0.000</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>0.000</u> tons/yr
C O:	84.0 lbs/MMcf =	<u>0.000</u> tons/yr

(#2 & #1 oil) Dryer Burner <100

The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ 0.5 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	<u>0.0</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>139000.0</u> Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>0.000</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	71.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.34 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

If Rating >100 n	
N O x:	24.0
V O C:	0.20

(#4 oil/ <100MMBTU)

Dryer Burner

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ 0.5 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant: 0.000 MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
138000.0 Btu/gal * 2000 lbs/ton

P M:	2.0 lbs/1000 gal =	<u>0.000</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	75.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.34 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(#4 oil/ >100MMBTU)

Dryer Burner

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ 0.000 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant: 0.0 MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
0.0 Btu/gal * 2000 lbs/ton

P M:	2.0 lbs/1000 gal =	<u>0.000</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	24.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.20 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(waste oil/ vaporizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ 0.500 % sulfur, based on 8760 hours of use and AP-42, Chapter 1.11

0.000 % Ash
0.000 % Lead

Pollutant: 0.0 MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
0.0 Btu/gal * 2000 lbs/ton

P M:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	50.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	11.0 lbs/1000 gal =	<u>0.000</u> tons/yr
VOC	1.0 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	1.7 lbs/1000 gal =	<u>0.000</u> tons/yr
Pb:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(waste oil/atomizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ 0.000 % sulfur, based on 8760 hours of use and AP-42 Chapter 1.11

0.000 % Ash
0.000 % Lead

Pollutant: 0.000 MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
0.000 Btu/gal * 2000 lbs/ton

P M: 0.0 lbs/1000 gal = 0.000 tons/yr
P M-10: 0.0 lbs/1000 gal = 0.000 tons/yr
S O x: 0.0 lbs/1000 gal = 0.000 tons/yr
N O x: 16.0 lbs/1000 gal = 0.000 tons/yr
VOC: 1.0 lbs/1000 gal = 0.000 tons/yr
C O: 2.10 lbs/1000 gal = 0.000 tons/yr
Pb: 0.00 lbs/1000 gal = 0.000 tons/yr

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

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and AP-42, Chapter 11.1, Table 11.1-3, rev. 12/00

P M: 28 lbs/ton x 0.0 tons/hr x 8760 hrs/yr = 0.000 tons/yr
2000 lbs/ton
P M-10: 6.5 lbs/ton x 0 tons/hr x 8760 hrs/yr = 0.000 tons/yr
2000 lbs/ton
Lead: 0.000033 lbs/ton x 0 tons/hr x 8760 hrs/yr = 0.000 tons/yr
2000 lbs/ton
HAPs: 0.0076 lbs/ton x 0 tons/hr x 8760 hrs/yr = 0.000 tons/yr
2000 lbs/ton

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

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

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

P M: 32 lbs/ton x 100.0 tons/hr x 8760 hrs/yr = 14016.0 tons/yr
2000 lbs/ton
P M-10: 4.5 lbs/ton x 100 tons/hr x 8760 hrs/yr = 1971.0 tons/yr
2000 lbs/ton
Lead: 0.000033 lbs/ton x 100 tons/hr x 8760 hrs/yr = 0.001 tons/yr
2000 lbs/ton
HAPs: 0.0076 lbs/ton x 100 tons/hr x 8760 hrs/yr = 3.329 tons/yr
2000 lbs/ton

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

**** conveying / handling ****

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 11.19.2

$$E_f = .0032 * \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{0.014} \text{ lbs/ton}$$

where k = 1 (particle size multiplier)
 U = 12 mph mean wind speed (worst case)
 M = 1.6 % moisture

PM : 0.014 lbs/ton x 100 tons/hr x 8760 hrs/yr = 5.978 tons/yr
 2000 lbs/ton

P M-10: 10% of PM = 0.598 tons/yr

Screeni PM: 96 tons/hr x 0.0315 lbs/ton / 2000 lbs/ton ; 8760 hrs/yr = 13.245 tons/yr
 AP-42 Ch.11.19.2

P M-10: 10% of PM = 1.325 tons/yr

**** unpaved roads ****

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8760 hours of use and AP-42, Ch 11.2.1.

A. Tri-axle Truck

6.86 trips/hr x
0.038 miles/roundtrip x
 8760 hrs/yr = 2283.6 miles per year

For PM

11.24	For PM-10	$E_f = \{k * [(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c] * [(365-p)/365]\}$
		= 2.01 lb/mile
10	where k =	2.6 (particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
4.8	s =	4.8 mean % silt content of unpaved roads
0.5	b =	0.4 Constant for PM-10 (b = 0.5 for PM-30 or TSP)
0.4	c =	0.3 Constant for PM-10 (c = 0.4 for PM-30 or TSP)
38	W =	28 tons average vehicle weight
0.2	Mdry =	0.2 surface material moisture content, % (default is 0.2 for dry conditions)
125	p =	125 number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

11.24 lb/mi x 2283.5568 mi/yr = PM 12.8 tons/yr
 2000 lb/ton

2.01 lb/mi x 2283.5568 mi/yr = PM-10 2.29 tons/yr
 2000 lb/ton

B. Front End Loader

$$\frac{0.0 \text{ trips/hr} \times 0.000 \text{ miles/roundtrip} \times 8760 \text{ hrs/yr}}{0.0 \text{ miles per year}}$$

For PM **For PM-10**

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

$$= 11.24 \text{ lb/mi} \times 2.27 \text{ lb/mile}$$

where k = 10 (particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
 s = 4.8 mean % silt content of unpaved roads
 b = 0.5 Constant for PM-10 (b = 0.5 for PM-30 or TSP)
 c = 0.4 Constant for PM-10 (c = 0.4 for PM-30 or TSP)
 W = 38 tons average vehicle weight
 Mdry = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)
 p = 125 number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

$$\frac{11.24 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = \text{PM} \quad 0.00 \text{ tons/yr}$$

$$\frac{2.27 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = \text{PM-10} \quad 0.00 \text{ tons/yr}$$

C. Semi Truck

$$\frac{0.0 \text{ trips/hr} \times 0.0 \text{ miles/roundtrip} \times 8760 \text{ hrs/yr}}{0.0 \text{ miles per year}}$$

For PM **For PM-10**

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

$$= 11.24 \text{ lb/mi} \times 2.27 \text{ lb/mile}$$

where k = 10 (particle size multiplier for PM-10) (k=10 for PM-30 or TSP)
 s = 4.8 mean % silt content of unpaved roads
 b = 0.5 Constant for PM-10 (b = 0.5 for PM-30 or TSP)
 c = 0.4 Constant for PM-10 (c = 0.4 for PM-30 or TSP)
 W = 38 tons average vehicle weight
 Mdry = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)
 p = 125 number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)

$$\frac{11.24 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = \text{PM} \quad 0.00 \text{ tons/yr}$$

$$\frac{2.27 \text{ lb/mi} \times 0 \text{ mi/yr}}{2000 \text{ lb/ton}} = \text{PM-10} \quad 0.00 \text{ tons/yr}$$

II Truckin Total PM: 12.84 tons/yr
 Total PM-10: 2.29 tons/yr

* * storage * *

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use and AP-42, Ch 11.2.3.

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

= 1.74 lbs/acre/day for sand
 = 1.16 lbs/acre/day for stone
 = 1.16 lbs/acre/day for slag
 = 1.16 lbs/acre/day for gravel
 = 1.16 lbs/acre/day for RAP

where s = 1.5 % silt for sand
 s = 1.0 % silt for stone
 s = 1.0 % silt for slag
 s = 1.0 % silt for gravel
 s = 1.0 % silt for RAP
 p = 125 days of rain greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

$$E_p(\text{storage}) = E_f \cdot sc \cdot (20 \text{ cuft/ton}) \cdot (365 \text{ days/yr})$$

$$(2000 \text{ lbs/ton}) \cdot (43560 \text{ sqft/acre}) \cdot (25 \text{ ft})$$

= 0.058 tons/yr for sand
 = 0.039 tons/yr for stone
 = 0.000 tons/yr for slag
 = 0.000 tons/yr for gravel
 = 0.000 tons/yr for RAP

Total PM: **0.097** tons/yr

where sc = **10.0** ,000 tons storage capacity for sand
 sc = **10.0** ,000 tons storage capacity for stone
 sc = **0** ,000 tons storage capacity for slag
 sc = **0** ,000 tons storage capacity for gravel
 sc = **0** ,000 tons storage capacity for RAP

P M-10: 35% of PM = 0.020 tons/yr for sand
 35% of PM = 0.014 tons/yr for stone
 35% of PM = 0.000 tons/yr for slag
 35% of PM = 0.000 tons/yr for gravel
 35% of PM = 0.000 tons/yr for RAP

Total PM-10: **0.034** tons/yr

Emissions before controls (combustion plus production) are as follows:

natural gas	#2 oil	#4 oil	Plus Hot Oil Heater on #2	waste oil
P M: 14049 tons/yr	P M: 0.0 tons/yr	P M: 0.000 tons/yr	P M: 0.000 tons/yr	P M: 0.000 tons/yr
P M-10: 1977 tons/yr	P M-10: 0.0 tons/yr	P M-10: 0.000 tons/yr	P M-10: 0.000 tons/yr	P M-10: 0.000 tons/yr
S O x: 0.109 tons/yr	S O x: 0.0 tons/yr	S O x: 0.000 tons/yr	S O x: 0.000 tons/yr	S O x: 0.000 tons/yr
N O x: 18.2 tons/yr	N O x: 0.0 tons/yr	N O x: 0.000 tons/yr	N O x: 0.000 tons/yr	N O x: 0.000 tons/yr
V O C: 1.000 tons/yr	V O C: 0.000 tons/yr	V O C: 0.000 tons/yr	V O C: 0.000 tons/yr	V O C: 0.000 tons/yr
C O: 15.3 tons/yr	C O: 0.0 tons/yr	C O: 0.000 tons/yr	C O: 0.000 tons/yr	C O: 0.000 tons/yr
Lead: 0.001 tons/yr	Lead: 0.001 tons/yr	Lead: 0.001 tons/yr	Lead: 0.001 tons/yr	Lead: 0.001 tons/yr
HAPs: 3.33 tons/yr	HAPs: 0.00 tons/yr	HAPs: 0.000 tons/yr	HAPs: 0.000 tons/yr	HAPs: 0.000 tons/yr

B. Source emissions after controls

dryer combustion: gas

P M:	0.33 tons/yr x	<u>0.00300</u>	emitted after controls =	<u>0.0010</u>	tons/yr
P M-10:	1.33 tons/yr x	<u>0.00300</u>	emitted after controls =	<u>0.004</u>	tons/yr

dryer combustion: #2 oil

P M:	0.00 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr
P M-10:	0.00 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr

hot oil heater combustion: gas

P M:	0.012 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.012</u>	tons/yr
P M-10:	0.050 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.050</u>	tons/yr

hot oil heater combustion: #2 oil

P M:	0.000 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr
P M-10:	0.000 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr

dryer combustion: #4 oil

P M:	0.00 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr
P M-10:	0.00 tons/yr x	<u>1.00000</u>	emitted after controls =	<u>0.000</u>	tons/yr

dryer combustion: waste oil

P M:	0.00 tons/yr x	<u>0.000</u>	emitted after controls =	<u>0.000</u>	tons/yr
P M-10:	0.00 tons/yr x	<u>0.000</u>	emitted after controls =	<u>0.000</u>	tons/yr

aggregate drying:

P M:	14016.00 tons/yr x	<u>0.00300</u>	emitted after controls =	<u>42.048</u>	tons/yr
P M-10:	1971.00 tons/yr x	<u>0.00300</u>	emitted after controls =	<u>5.913</u>	tons/yr

conveying/handling:

P M:	5.98 tons/yr x	<u>1.000</u>	emitted after controls =	<u>5.978</u>	tons/yr
P M-10:	0.60 tons/yr x	<u>1.000</u>	emitted after controls =	<u>0.598</u>	tons/yr

screening

P M:	13.25 tons/yr x	<u>1.000</u>	emitted after controls =	<u>13.245</u>	tons/yr
P M-10:	1.32 tons/yr x	<u>1.000</u>	emitted after controls =	<u>1.325</u>	tons/yr

unpaved roads:

P M:	12.84 tons/yr x	50.00%	emitted after controls =	<u>6.419</u>	tons/yr
P M-10:	2.29 tons/yr x	50.00%	emitted after controls =	<u>1.146</u>	tons/yr

storage:

P M:	0.097 tons/yr x	50.00%	emitted after controls =	<u>0.048</u>	tons/yr
P M-10:	0.034 tons/yr x	50.00%	emitted after controls =	<u>0.017</u>	tons/yr

Emissions after controls (combustion plus production) are as follows:

	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	67.8	0.0	0.000	0.000	tons/yr
P M-10:	9.1	0.0	0.000	0.000	tons/yr

II. Allowable Emissions

A. The following calculations determine compliance with OP 99-08-87-3180, which limits stack emissions from asphalt plants to 0.087 gr/dscf:

$$\begin{aligned}
 & \frac{0.087 \text{ grains} *}{\text{dscf}} \times \frac{30000.000 \text{ acfm} *}{1} \times \frac{528}{460 + 120 \text{ Temp}} * \times \frac{100}{100} - \frac{\% \text{ moisture}}{1.6} \\
 & \frac{525600 \text{ minutes} *}{\text{year}} \times \frac{1}{7000 \text{ grains}} * \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = \underline{87.775} \text{ tons/yr}
 \end{aligned}$$

To meet the existing grain loading limit, the following value must be < amount calculated above

$$\underline{42.1} \text{ tons/yr}$$

B. The following calculations determine the maximum sulfur content of distillate #2 fuel oil allowable by 326 IAC 7:

limit: 0.5 lbs/MMBtu

$$\begin{aligned}
 & 0.5 \text{ lbs/MMBtu} \times \frac{141800.0 \text{ Btu/gal}}{70.9 \text{ lbs/1000gal}} = \underline{70.9} \text{ lbs/1000gal} \\
 & 70.9 \text{ lbs/1000gal} / \frac{142.0 \text{ lb/1000 gal}}{0.499} = \underline{0.499}
 \end{aligned}$$

Sulfur content must be less than or equal to 0.499 % to comply with 326 IAC 7 and to limit SO2 emissions to 99 tons per year or less.

C. The following calculations determine the maximum sulfur content of residual waste fuel oil allowable by 326-IAC 7:

limit: 1.6 lbs/MMBtu

$$\begin{aligned}
 & 1.6 \text{ lbs/MMBtu} \times \frac{0.000 \text{ Btu/gal}}{100.0 \text{ lbs/1000 gal}} = \underline{0} \text{ lbs/1000gal} \\
 & 0 \text{ lbs/1000gal} / \frac{100.0 \text{ lbs/1000 gal}}{0.000} = \underline{0.000}
 \end{aligned}$$

Sulfur content must be less than or equal to 0.000 % to comply with 326 IAC 7 and to limit SO2 emissions to 99 tons per year or less.

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

limit:	0.5 lbs/MMBtu			
	0.5 lbs/MMBtu x	<u>139000.000</u> Btu/gal=		69.5 lbs/1000gal
	69.5 lbs/1000gal /	<u>150.0</u> lbs/1000 gal =		<u>0.463</u>
		<u>0.463</u> % to comply with 326 IAC 7		

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON NOx

FUEL USAGE LIMITATION FOR HOT OIL HEATER ALONE (OIL)

0.00 <u>tons NOx</u>	*	2000 <u>lbs</u>	=	0.00 <u>lbs NOx</u>
year		ton		year
0 <u>lbs NOx</u>	/	20 <u>lbs NOx</u>	=	0.00 <u>kgal</u>
year		kgal		year
0.00 <u>kgal</u>	*	99.00 <u>tons/year</u>	=	0.0 <u>gal fuel</u>
year		0 tons/year		year

FUEL USAGE LIMITATION FOR BURNER & HEATER (Gas)

18.18 <u>tons NOx</u>	*	2000 <u>lbs</u>	=	36354 <u>lbs NOx</u>
year		ton		year
36354 <u>lbs NOx</u>	/	100.0 <u>lbs NOx</u>	=	363.54 <u>MMcf</u>
year		MMcf		year
363.54 <u>MMcf</u>	*	<u>99.0</u> <u>tons/yr</u>	=	0.0 <u>MMcf</u> FESOP Limit
year		18.18 tons/yr		year

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

0.00 <u>tons NOx</u>	*	2000 <u>lbs</u>	=	0.00 <u>lbs NOx</u>
year		ton		year
0.00 <u>lbs NOx</u>	/	20 <u>lbs</u>	=	0.00 <u>kgal</u>
year		1000 gal		year
0.00 <u>kgal</u>	*	<u>99.0</u> <u>tons/yr</u>	=	0.0 <u>kgal</u> FESOP Limit
year		0.00 tons/yr		year

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

$$0.00 \frac{\text{tons NOx}}{\text{year}} \quad * \quad 2000 \frac{\text{lbs}}{\text{ton}} \quad = \quad 0.00 \frac{\text{lbs NOx}}{\text{year}}$$

$$0.00 \frac{\text{lbs NOx}}{\text{year}} \quad / \quad 0.0 \frac{\text{lbs}}{1000 \text{ gal}} \quad = \quad 0.00 \frac{\text{kgal}}{\text{year}}$$

$$0.00 \frac{\text{kgal}}{\text{year}} \quad * \quad \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} \quad = \quad 0.0 \frac{\text{kgal}}{\text{year}} \quad \text{FESOP Limit}$$

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

$$0.00 \frac{\text{tons NOx}}{\text{year}} \quad * \quad 2000 \frac{\text{lbs}}{\text{ton}} \quad = \quad 0.00 \frac{\text{lbs NOx}}{\text{year}}$$

$$0.00 \frac{\text{lbs NOx}}{\text{year}} \quad / \quad 0.0 \frac{\text{lbs}}{1000 \text{ gal}} \quad = \quad 0.00 \frac{\text{kgal}}{\text{year}}$$

$$0.00 \frac{\text{kgal}}{\text{year}} \quad * \quad \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} \quad = \quad 0.0 \frac{\text{kgal}}{\text{year}} \quad \text{FESOP Limit}$$

FUEL USAGE LIMITATION: BASED ON SO2

FUEL USAGE LIMITATION FOR HOT OIL HEATER ON OIL

$$0.00 \frac{\text{tons SO2}}{\text{year}} \quad * \quad 2000 \frac{\text{lbs}}{\text{ton}} \quad = \quad 0 \frac{\text{lbs SO2}}{\text{year}}$$

$$0 \frac{\text{lbs SO2}}{\text{year}} \quad / \quad 70.0 \frac{\text{lbs SO2}}{\text{kgal}} \quad = \quad 0.00 \frac{\text{kgal}}{\text{year}}$$

$$0 \frac{\text{kgal}}{\text{year}} \quad * \quad \frac{99.0 \text{ tons/year}}{0 \text{ tons/year}} \quad = \quad 0.0 \frac{\text{gal fuel}}{\text{year}}$$

FUEL USAGE LIMITATION FOR BURNER AND HOT OIL HEATER (Gas)

$$0.109 \frac{\text{tons SO2}}{\text{year}} \quad * \quad 2000 \frac{\text{lbs}}{\text{ton}} \quad = \quad 218.12 \frac{\text{lbs SO2}}{\text{year}}$$

$$218.12 \frac{\text{lbs SO2}}{\text{year}} \quad / \quad 0.6 \frac{\text{lbs SO2}}{\text{MMcf}} \quad = \quad 363.54 \frac{\text{MMcf}}{\text{year}}$$

$$363.54 \frac{\text{MMcf}}{\text{year}} \quad * \quad \frac{99.0 \text{ tons/yr}}{0.11 \text{ tons/yr}} \quad = \quad 0.0 \frac{\text{MMcf}}{\text{year}} \quad \text{FESOP Limit}$$

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

$$\frac{0.0 \text{ tons SO}_2}{\text{year}} * 2000 \frac{\text{lbs}}{\text{ton}} = 0.00 \frac{\text{lbs SO}_2}{\text{year}}$$

$$\frac{0.00 \text{ lbs SO}_2}{\text{year}} / \frac{70.0 \text{ lbs}}{1000 \text{ gal}} = 0 \frac{\text{gal}}{\text{year}}$$

$$\frac{0.00 \text{ gal}}{\text{year}} * \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} = 0.0 \frac{\text{gal}}{\text{year}} \text{ FESOP Limit}$$

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

See Below for calculation of #4 oil limit

$$\frac{0.0 \text{ tons SO}_2}{\text{year}} * 2000 \frac{\text{lbs}}{\text{ton}} = 0 \text{ lbs SO}_2$$

$$\frac{0.00 \text{ lbs SO}_2}{\text{year}} / \frac{0.0 \text{ lbs}}{1000 \text{ gal}} = 0 \frac{\text{gal}}{\text{year}}$$

$$\frac{0.00 \text{ gal}}{\text{year}} * \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} = 0.0 \frac{\text{gal}}{\text{year}} \text{ FESOP Limit}$$

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

$$\frac{0.0 \text{ tons SO}_2}{\text{year}} * 2000 \frac{\text{lbs}}{\text{ton}} = 0.00 \frac{\text{lbs SO}_2}{\text{year}}$$

$$\frac{0.00 \text{ lbs SO}_2}{\text{year}} / \frac{0.0 \text{ lbs}}{1000 \text{ gal}} = 0.00 \frac{\text{gal}}{\text{year}}$$

$$\frac{0.00 \text{ gal}}{\text{year}} * \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} = 0.0 \frac{\text{gal}}{\text{year}} \text{ FESOP Limit}$$