



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: January 8, 2007
RE: Dave O'Mara Contractors, Inc. / 055-19594-05211
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 03/23/06



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

**Dave O'Mara Contractors, Inc.
R. R. # 1, Box 183A
Solsberry, Indiana 47459
Portable**

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. 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.

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.

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.: F055-19594-05211	
Issued by: <i>Original document signed by</i> Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: January 8, 2007 Expiration Date: January 8, 2012

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SECTION A SOURCE SUMMARY

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

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

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

Authorized individual:	President
Source Address:	R. R. # 1, Box 183A, Solsberry, Indiana 47459
Mailing Address:	R. R. # 1, Box 183A, Solsberry, Indiana 47459
General Source Phone:	(812) 346-4135
SIC Code:	2951
Source Location Status:	Greene
Source Status:	Attainment for all criteria pollutants Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD, Emission Offset and Nonattainment NSR; Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) hot asphalt drum mix dryer, with a maximum capacity of 225 tons per hour of raw material, equipped with one (1) 60 million British thermal units (MMBtu) per hour #2 fuel oil fired burner using natural gas or #4 fuel oil as a backup fuel, equipped with one (1) pulse jet baghouse for particulate matter control, exhausting through one (1) stack, identified as stack #2;
- (b) One (1) 1125 horsepower (hp) diesel generator, constructed in 2000;
- (c) Two (2) 25,000 gallon asphalt storage tanks;
- (d) One (1) 15,000 gallon No. 4 fuel oil storage tank;
- (e) One (1) 10,000 gallon No. 2 fuel oil storage tank.

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

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

- (a) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight:
 - (1) One (1) No. 2 distillate fuel oil fired hot oil heater, with a maximum rated capacity of 0.2 million British thermal units per hour.

- (b) Combustion source flame safety purging on startup;
- (c) Paved and unpaved roads and parking lots with public access;
- (d) Other categories with emissions below insignificant thresholds:
 - (1) Six (6) compartment cold feed bins with feeders and collection conveyors;
 - (2) One (1) 24" charging conveyer and one (1) 4'x 10' scalping screen;
 - (3) One (1) mineral filler silo; and
 - (4) One (1) bucket elevator to transfer product from the asphalt dryer to storage silo.
- (e) One (1) 1.0 MMBtu/hr No. 2 fuel oil or natural gas hot oil heater;
- (f) Two (2) 100 ton Barber Green asphalt storage silos.

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F055-19594-05211, 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 of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 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 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.6 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.7 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 an "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.8 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.9 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

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

B.10 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (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, as IDEM, OAQ may require to determine the compliance status of the source.

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

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ 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 PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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

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

- (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
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F145-23091-03230 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 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.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ 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 being needed to process the application.

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC13-30-3-1]

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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 [326 IAC 6-3-2]

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on February 23, 2000. The plan is included as Attachment A.

C.8 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.9 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
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

C.13 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.14 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

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

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

C.15 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 prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on February 15, 2002.
- (b) 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.16 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.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

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

C.19 General Record Keeping Requirements[326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Portable Source Requirement

C.21 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, and Emission Offset requirements in 326 IAC 2-3. Prior to locating in any severe nonattainment area, the Permittee must submit a request and obtain a permit modification.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)

- (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.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.

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) hot asphalt drum mix dryer, with a maximum capacity of 225 tons per hour of raw material, equipped with one (1) 60 million British thermal units (MMBtu) per hour #2 fuel oil fired burner using natural gas or #4 fuel oil as a backup fuel, equipped with one (1) pulse jet baghouse for particulate matter control, exhausting through one (1) stack, identified as stack #2;
- (b) One (1) 1125 horsepower (hp) diesel generator, constructed in 2000;

(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 Matter (PM) [326 IAC 2-2]

The PM emissions from the aggregate mixing and drying operation shall not exceed 0.10 pound of PM per ton of asphalt mix. This is equivalent to a PM emission limit of 23.01 pounds per hour, based on a maximum throughput of 225 tons of asphalt mix per hour. This limits PM emissions from the entire source to less than 250 tons per year. Compliance with the above requirements shall render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), not applicable.

D.1.2 Particulate Matter Less Than 10 Microns (PM-10) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, PM-10 emissions from the aggregate mixing and drying operation shall not exceed 0.06 pound of PM-10 per ton of asphalt mix. This is equivalent to a PM-10 emission limit of 13.39 pounds per hour, including both filterable and condensable fractions based on a maximum throughput of 225 tons of asphalt mix per hour. This limits PM-10 emissions from the entire source to less than 100 tons per year. Compliance with this limit will render Part 70 rules (326 IAC 2-7) and 326 IAC 2-2 (PSD), not applicable.

D.1.3 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf).

D.1.4 Sulfur Dioxide (SO₂) [326 IAC 7-1.1] [326 IAC 7-2-1]

Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 60 million British thermal units per hour burner for the aggregate drum mix dryer shall be limited to 0.5 pound per MMBtu heat input or a sulfur content of less than or equal to 0.5% when using No. 2 distillate oil or No. 4 distillate oil.

Pursuant to 326 IAC 7-1.1-2, this sulfur dioxide limit applies at all times including periods of startup, shutdown, and malfunction. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.5 No. 2 Distillate Fuel Oil and Equivalent Fuel Usage [326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-3]

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

- (a) The usage of No. 2 distillate fuel oil with a limited sulfur content of 0.5% and No. 2 distillate fuel oil equivalents in the 60 MMBtu/hr aggregate dryer burner shall not exceed 2,662,254 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited to less than 100 tons per year.
- (b) For purposes of determining compliance, every 1,000 gallons of No.2 fuel oil burned in the 60 MMBtu per hour burner for the aggregate dryer shall be equivalent to 1155 gallons of No.4 fuel oil based on SO₂ emissions, such that the total gallons of No.2 fuel oil and No.2 fuel oil equivalent input does not exceed the limit specified.

Therefore, the requirements of 326 IAC 2-7 do not apply. Compliance with the above fuel usage limits shall also render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.6 No. 4 Distillate Fuel Oil Usage [326 IAC 2-8-11.1(d)(5)(D)]

Pursuant to 326 IAC 2-8-11.1(d)(5)(D) and Minor Permit Revision No. 055-18675-05211, issued on May 27, 2004, the usage of No. 4 distillate fuel oil with a limited sulfur content of 0.41% in the 60 MMBtu per hour aggregate dryer burner shall be limited to 813,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions from the usage of No. 4 distillate fuel oil are limited to less than 25 tons per year.

D.1.7 Nitrogen Oxides (NO_x) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the operation of the 1125 hp diesel generator shall not exceed 2,200 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. NO_x emissions from the 1125 hp diesel generator shall not exceed 0.031 lb/hp-hr. This operating and emission limit shall limit NO_x emissions from the diesel generator to less than 38.36 tons per twelve (12) consecutive month period. Compliance with this condition shall limit total NO_x emissions from the source to less than 100 tons per twelve (12) consecutive month period.

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

D.1.8 Carbon Monoxide (CO) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, the annual throughput to the aggregate dryer shall be limited to 1,365,684 tons of asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month. CO emissions from the aggregate mixing and drying operation shall be limited to 0.13 pounds of CO emitted per ton of asphalt produced. Based on 8,760 hours of operation per twelve (12) consecutive month period, this limits CO emissions from the aggregate mixing and drying operation to less than 88.77 tons per year for a source-wide total potential to emit of less than 100 tons per twelve (12) consecutive month period.

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

D.1.9 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]

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

- (1) Penetrating prime coating;

- (2) Stockpile storage;
 - (3) Application during the months of November, December, January, February and March.
- (b) The Permittee shall require prior approval from OAQ before using cutback asphalt or asphalt emulsion.

D.1.10 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 any control devices.

Compliance Determination Requirements

D.1.11 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

- (a) No later than five (5) years from October 1, 2003, in order to demonstrate compliance with Conditions D.1.1, D.1.2, D.1.3 and D.1.20, the Permittee shall perform PM and PM-10 testing on the aggregate dryer/burner utilizing methods as approved by the Commissioner. PM-10 includes filterable and condensable PM-10.
- (b) Opacity testing shall be performed utilizing methods per 40 CFR Part 60 Appendix A to demonstrate compliance with the opacity limitation of Condition D.1.20.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.12 Particulate Control

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

D.1.13 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 0.5 pounds per million Btu heat input when firing No. 2 distillate fuel oil and 0.41 pounds per million Btu heat input when firing No. 4 distillate fuel oil:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

- (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 60 MMBtu per hour dryer burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.1.14 Visible Emissions Notations

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

D.1.15 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer/burner, at least once per day when the aggregate dryer/burner is in operation when venting to the atmosphere. When for any aggregate dryer/burner, the pressure drop across the baghouse 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- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.16 Broken or Failed Bag Detection

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

- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

D.1.17 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.4, D.1.5, and D.1.6 the Permittee shall maintain records in accordance with (1) through (7) below. Records maintained for (1) through (7) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limits established in Conditions D.1.4, D.1.5, and D.1.6.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual No. 2 distillate fuel oil and No. 2 distillate fuel oil equivalent usage in the 60 MMBtu per hour burner for the aggregate dryer per month since last compliance determination period and equivalent SO₂ emissions;
- (3) Actual No. 4 distillate fuel oil and No. 4 distillate fuel oil equivalent usage in the 60 MMBtu per hour burner for the aggregate dryer per month since last compliance determination period and equivalent SO₂ emissions;
- (4) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

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

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

- (b) To document compliance with Condition D.1.7, the Permittee shall maintain monthly records of the hours of operation of the diesel generator.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain monthly records of hot asphalt production.

- (d) To document compliance with condition D.1.15 the Permittee shall maintain records of visible emission notations of the mixing and drying operation stack exhaust, once per day.
- (e) To document compliance with Condition D.1.15 the Permittee shall maintain records once per day of the total static pressure drop during normal operation when venting to the atmosphere.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.18 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.4, D.1.5, D.1.6, D.1.7 and D.1.8 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1-1(1).

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

D.1.19 General Provisions Relating to New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities [326 IAC 12-1][40 CFR Part 60, Subpart A] [40 CFR Part 60, Subpart I]

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

D.1.20 New Source Performance Standards (NSPS) for Hot Mix Facilities [40 CFR Part 60, Subpart I]

Pursuant to 40 CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60, Subpart I specified as follows:

§ 60.90 Applicability and designation of affected facility.

(a) The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

(b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.

§ 60.91 Definitions.

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

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

§ 60.92 Standard for particulate matter.

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

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

§ 60.93 Test methods and procedures.

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

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

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

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

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

Source Name: Dave O'Mara Contractors, Inc.
Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
FESOP No.: F055-19594-05211

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Dave O'Mara Contractors, Inc.
Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
FESOP No.: F055-19594-05211

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Dave O'Mara Contractors, Inc.
 Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 FESOP No.: F055-19594-05211
 Facility: 60 MMBtu per hour aggregate dryer burner
 Parameter: Sulfur Dioxide (SO₂)
 Limit: The usage of No. 2 distillate fuel oil with a limited sulfur content of 0.5% and No. 2 distillate fuel oil equivalents in the 60 MMBtu/hr aggregate dryer burner shall not exceed 2,662,254 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For purposes of determining compliance with this limit, the fuel equivalency ratios in condition D.1.5(b) shall be used.

YEAR: _____

Month	Column 1		Column 2		Column 1 + Column 2	
	#2 oil and equivalent usage this month (gallons)		#2 oil and equivalent usage previous 11 months (gallons)		12 month total #2 oil and equivalent usage (gallons)	
	#2 oil	Equiv.	#2 oil	Equiv.	#2 oil.	Equiv.
Month 1						
Month 2						
Month 3						

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Dave O'Mara Contractors, Inc.
 Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 FESOP No.: F055-19594-05211
 Facility: 60 MMBtu per hour aggregate dryer burner
 Parameter: Sulfur Dioxide (SO₂)
 Limit: The usage of No. 4 distillate fuel oil with a limited sulfur content of 0.41% in the 60 MMBtu per hour aggregate dryer burner shall be limited to 813,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions from the usage of No. 4 distillate fuel oil are limited to less than 25 tons per year.

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	#4 Oil Usage This Month (gallons)	#4 Oil Usage Previous 11 Months (gallons)	12 Month Total #4 Oil Usage (gallons)

9 No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report

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

FESOP Quarterly Report

Source Name: Dave O'Mara Contractors, Inc.
 Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
 FESOP No.: F055-19594-05211
 Facility: 1125 hp diesel generator
 Parameter: Sulfur Dioxide (SO₂) and Nitrogen Oxides (NO_x)
 Limit: The operation of the 1125 hp diesel generator shall not exceed 2,200 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. NO_x emissions from the 1125 hp diesel generator shall not exceed 0.031 lb/hp-hr. This operating and emission limit shall limit NO_x emissions from the diesel generator to less than 38.36 tons per twelve (12) consecutive month period.

YEAR: _____

Emergency Generator	Month:			Month:			Month:		
	<u>Hour of Op. this month</u>	<u>Hour of Op. Prev. 11 months</u>	<u>Hour of Op. 12 mon. tot</u>	<u>Hour of Op. this month</u>	<u>Hour of Op. Prev. 11 months</u>	<u>Hour of Op. 12 mon. tot</u>	<u>Hour of Op. this month</u>	<u>Hour of Op. Prev. 11 months</u>	<u>Hour of Op. 12 mon. tot</u>
1125 hp generator									

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Dave O'Mara Contractors, Inc.
Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
FESOP No.: F055-19594-05211
Facility: 225 ton/hr aggregate mixer/dryer
Parameter: Throughput
Limit: The annual throughput to the aggregate dryer shall be limited to 1,365,684 tons of asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

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

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

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

Attach a signed certification to complete this report.

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

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

Source Name: Dave O'Mara Contractors, Inc.
Source Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
Mailing Address: R. R. # 1, Box 183A, Solsberry, Indiana 47459
FESOP No.: F055-19594-05211

Months: _____ to _____ Year: _____

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

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

**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:	Dave O=Mara Contractors, Inc.
Source Location:	R. R. # 1, Box 183A, Solsberry, Indiana 47459
County:	Greene
SIC Code:	2951
Operation Permit No.:	F137-11923-05211
Operation Permit Issuance Date:	June 30, 2000
Permit Renewal No.:	F055-19594-05211
Permit Reviewer:	Linda Quigley/EVP

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Dave O'Mara Contractors, Inc. relating to the operation of a portable hot asphalt drum mix plant.

Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) hot asphalt drum mix dryer, with a maximum capacity of 225 tons per hour of raw material, equipped with one (1) 60 million British thermal units (MMBtu) per hour #2 fuel oil fired burner using natural gas or #4 fuel oil as a backup fuel, equipped with one (1) pulse jet baghouse for particulate matter control, exhausting through one (1) stack, identified as stack #2;
- (b) One (1) 1125 horsepower (hp) diesel generator, constructed in 2000;
- (c) Two (2) 25,000 gallon asphalt storage tanks;
- (d) One (1) 15,000 gallon No. 4 fuel oil storage tank;
- (e) One (1) 10,000 gallon No. 2 fuel oil storage tank.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

- (a) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight:
 - (1) One (1) No. 2 distillate fuel oil fired hot oil heater, with a maximum rated capacity of 0.2 million British thermal units per hour.

- (b) Combustion source flame safety purging on startup;
- (c) Paved and unpaved roads and parking lots with public access;
- (d) Other categories with emissions below insignificant thresholds:
 - (1) Six (6) compartment cold feed bins with feeders and collection conveyors;
 - (2) One (1) 24" charging conveyer and one (1) 4'x 10' scalping screen;
 - (3) One (1) mineral filler silo; and
 - (4) One (1) bucket elevator to transfer product from the asphalt dryer to storage silo.
- (e) One (1) 1.0 MMBtu/hr No. 2 fuel oil or natural gas hot oil heater;
- (f) Two (2) 100 ton Barber Green asphalt storage silos.

Existing Approvals

The source has been operating under the previous FESOP F137-11923-05211 issued on June 30, 2000, and the following amendments and revisions:

- (a) First Reopening No. R047-13105-05211, issued on September 21, 2001;
- (b) First Minor Permit Revision No. 055-18675-05211, issued on May 27, 2004;
- (c) First Significant Permit Revision No. 055-19293-05211, issued on September 23, 2004;
- (d) First Administrative Amendment No. 055-21277-05211, issued on June 16, 2005.

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

The No. 2 fuel oil usage limitation included in MPR 055-18675-05211, issued on May 27, 2004, has been revised using corrected emission factors.

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 June 24, 2004.

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

Emission Calculations

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

Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	Greater than 250
PM-10	Greater than 250
SO ₂	Greater than 100, less than 250
VOC	Less than 100
CO	Greater than 100, less than 250
NO _x	Greater than 100, less than 250

HAPs	Potential to Emit (tons/yr)
Arsenic	Less than 10
Acetaldehyde	Less than 10
Benzene	Less than 10
Beryllium	Less than 10
Cadmium	Less than 10
Chromium	Less than 10
Ethylbenzene	Less than 10
Formaldehyde	Less than 10
Quinone	Less than 10
Lead	Less than 10
Manganese	Less than 10
Mercury	Less than 10
Nickel	Less than 10
Selenium	Less than 10
Toluene	Less than 10
Total PAH	Less than 10
Xylene	Less than 10
Hydrogen Chloride	Less than 10
Total Volatile HAPs	Less than 10
Total	Less than 25

- (a) The unrestricted potential emissions of PM-10, NO_x, CO and SO₂ are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) **Fugitive Emissions**
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, however there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

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

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Aggregate Dryer ⁽¹⁾	100.80 ⁽²⁾	58.66 ⁽³⁾	94.51	31.88	88.77 ⁽⁶⁾	37.56	7.99
Hot Oil Heaters	0.08	0.13	2.85	0.02	0.37	0.80	negl.
Diesel Generator ⁽⁴⁾	2.72	2.72	2.54	3.11	8.27	38.36	negl.
Conveying/Handling	2.34	1.11	-	-	-	-	-
Unpaved Roads ⁽⁵⁾	141.82	36.14	-	-	-	-	-
Load Out and Silo Filling	1.09	1.09	--	15.86	2.49	--	0.28
Aggregate Storage	0.15	0.05	-	-	-	-	-
Total Emissions	249	99.9	99.9	50.87	99.9	76.72	8.27

- (1) Limited PTE based on No.2 distillate fuel oil with a sulfur content of 0.5%, usage limitation of 2,662,254 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month to comply with 326 IAC 2-8 (FESOP).
- (2) Maximum allowable PM emissions limited to 0.10 lb of PM/ ton of asphalt mix in order to render 326 IAC 2-2 (PSD) not applicable.
- (3) Maximum allowable PM10 emissions in order to comply with 326 IAC 2-8 (FESOP).
- (4) Limited emissions based on 2,200 hours of operation per year.
- (5) Potential to emit after controls.
- (6) Limited CO emissions based on hot mix asphalt production limit of 1,365,684 tons per twelve (12) consecutive month period.

County Attainment Status

The source is located in Greene County.

Pollutant	Status
PM2.5	Attainment or Unclassifiable
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana.

- (b) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Greene County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Greene County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM 2.5 emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability for the source section.
- (d) Greene County has been classified as attainment or unclassifiable in Indiana for the remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (e) On August 7, 2006, a temporary emergency rule took effect redesignating Delaware, Greene, Jackson, Vanderburgh, Vigo and Warrick Counties to attainment for the eight-hour ozone standard, redesignating Lake County to attainment for the sulfur dioxide standard, and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

Portable Source

- (a) **Initial Location**
This is a portable source and its initial location is R. R. # 1, Box 183A, Solsberry, Indiana 47459.
- (b) **PSD and Emission Offset Requirements**
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD) 326 IAC 2-2 and Emission Offset 326 IAC 2-3.
- (c) **Fugitive Emissions**
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, however there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.

Source Status

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

Pollutant	Emissions (tons/yr)
PM	140.1
PM-10	37.5
SO ₂	99
VOC	10.8
CO	30.4
NO _x	88.5
Single HAP	2.4
Combination HAPs	6.2

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) This existing source is **not** a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or greater, and it is not in one of the 28 listed source categories.

Federal Rule Applicability

- (a) This source is subject to the New Source Performance Standard (NSPS), 326 IAC 12, (40 CFR 60.90, Subpart I) because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973.

The affected facility includes:

One (1) hot asphalt drum mix dryer, with a maximum capacity of 225 tons per hour of raw material, equipped with one (1) 60 million British thermal units (MMBtu) per hour #2 fuel oil fired burner using natural gas or #4 fuel oil as a backup fuel, equipped with one (1) pulse jet baghouse for particulate matter control, exhausting through one (1) stack, identified as stack #2.

Nonapplicable portions of the NSPS will not be included in the permit. This source is subject to the following portion of Subpart I.

- (1) 40 CFR 60.90;
- (2) 40 CFR 60.91;
- (3) 40 CFR 60.92;
- (4) 40 CFR 60.93.

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

- (b) The requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" are not included in the permit for the one (1) 25,000 gallon asphalt cement storage tank. Although it was constructed after July 23, 1984, and has a storage capacity greater than 75 cubic meters, but less than 151 cubic meters, the liquid asphalt stored in the tank has a maximum true vapor pressure of less than 15.0 kPa. Therefore, pursuant to 40 CFR 60.110b(b), as amended in the October 15, 2003 Federal Register, this tank is not subject to this rule.
- (c) The requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" are not included in the permit for the one (1) 15,000 gallon #4 fuel oil storage tank because it has a storage capacity of less than 75 cubic meters.

However, the one (1) 25,000 gallon asphalt cement storage tank and the one (1) 15,000 gallon #4 fuel oil storage tank are subject to the requirements of 40 CFR 60.116b(a) and (b) as the rule existed prior to October 2003, under 326 IAC 12 due to the state rules not yet reflecting the changes made to this NSPS.
- (d) The requirements of the New Source Performance Standard, 40 CFR 60.4200, Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines" are not included in the permit for the 1125 horsepower (hp) diesel generator, because the generator was constructed in 2000. Owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) which commence construction, modify or reconstruct their stationary CI ICE after July 11, 2005 are subject to the requirements of this subpart.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) included in this permit.

State Rule Applicability – Entire Source

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

This source is not subject to the requirements of this rule. The existing source is an existing minor PSD source. The allowable emissions of all regulated pollutants, except PM, are less than 100 tons per year after application of all federally enforceable emission limits as discussed below under 326 IAC 2-8. The allowable emissions of PM are less than 250 tons per year after application of a federally enforceable emission limit of 0.10 pound of PM per ton of asphalt mix for the aggregate mixing and drying operation equivalent to 100.80 tons per year (23.01 pounds per hour) based on a maximum throughput of 225 tons of asphalt mix per hour. Therefore the requirements of 326 IAC 2-2 (PSD) do not apply. This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2.

326 IAC 2-3 (Emission Offset)

- (a) The requirements of 326 IAC 2-3 (Emission Offset) apply to major sources or major modifications constructed in an area designated as nonattainment. Since this source is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at this time these areas are Lake and Porter Counties), the applicability threshold for 326 IAC 2-3 (Emission Offset) is 100 tons per year for VOC and NOx. Since the source wide VOC and NOx emissions are less than 100 tons per year, the requirements of 326 IAC 2-3 (Emission Offset) do not apply.

- (b) This source is approved for operation in all the counties designated as non-attainment for PM 2.5 in 70 FR 943 dated January 5, 2005, except in Lake and Porter Counties. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM 2.5 major NSR regulations, states should assume that a major stationary source's PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area as a source that emits or has the potential to emit 100 tpy of any regulated pollutant. Dave O'Mara Contractors, Inc. has a limited potential to emit of PM10 below 100 tpy. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-3 does not apply.

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

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the PTE 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT).

This source has potential single HAP and total HAP emissions of less than 10 and 25 tons per year, respectively, therefore, this rule does not apply.

326 IAC 2-6 (Emission Reporting)

Since this source is complying with 326 IAC 2-8 (FESOP) and is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program, this source is not subject to 326 IAC 2-6 (Emission Reporting).

326 IAC 2-8-4 (FESOP)

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

- (a) The usage of No. 2 distillate fuel oil with a limited sulfur content of 0.5% and No. 2 distillate fuel oil equivalents in the 60 MMBtu/hr aggregate dryer burner shall not exceed 2,662,254 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited to less than 100 tons per year.
- (b) Pursuant to 326 IAC 2-8-4(1), and Minor Permit Revision No. 055-18675-05211, on May 27, 2004, the usage of No. 4 distillate fuel oil with a limited sulfur content of 0.41% in the 60 MMBtu per hour aggregate dryer burner shall be limited to 813,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited to less than 25 tons per year.
- (c) For purposes of determining compliance with (a) above, every 1,000 gallons of No.2 fuel oil burned in the 60 MMBtu per hour burner for the aggregate dryer shall be equivalent to 1155 gallons of No.4 fuel oil based on SO₂ emissions, such that the total gallons of No.2 fuel oil and No.2 fuel oil equivalent input does not exceed the limit specified.
- (d) The operation of the 1125 hp diesel generator shall not exceed 2,200 hours of operation per twelve (12) consecutive month period, with compliance determined at the end of each month. NO_x emissions from the 1125 hp diesel generator shall not exceed 0.031 lb/hp-hr. This operating and emission limit shall limit NO_x emissions from the diesel generator to less than 38.36 tons per twelve (12) consecutive month period. Compliance with this condition shall limit total NO_x emissions from the source to less than 100 tons per twelve (12) consecutive month period.

- (e) PM-10 emissions from the aggregate mixing and drying operation shall be limited to 0.06 pounds of PM-10 emitted per ton of asphalt produced, including both filterable and condensable fractions. This is equivalent to a PM-10 emission limit of 13.39 pounds per hour, based on a maximum throughput of 225 tons of asphalt mix per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 58.66 tons per year for a source-wide total potential to emit of less than 100 tons per year. The source will comply with the PM-10 emission limit by utilizing a baghouse for controlling PM-10 emissions to less than 13.38 pounds per hour from the aggregate dryer.
- (f) CO emissions from the aggregate mixing and drying operation shall be limited to 0.13 pounds of CO emitted per ton of asphalt produced. This is equivalent to a CO emission limit of 20.27 pounds per hour, based on an annual limited throughput of 1,365,684 tons of hot mix asphalt produced. Based on 8,760 hours of operation per twelve (12) consecutive month period, this limits CO emissions from the aggregate mixing and drying operation to 88.77 tons per year for a source-wide total potential to emit of less than 100 tons per year.

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

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6.5-1-2 (Particulate Emissions Limitations)

The source is subject to the requirements of 326 IAC 6.5-1-2 (Particulate Emissions Limitations) because as a portable source it can operate in any of the counties specifically listed under 326 IAC 6.5-1-7 (except in Lake County). For asphalt plants constructed after June 11, 1973, the rule requires that the particulate matter emissions be limited to 0.03 gr/dscf. The baghouse for the aggregate dryer shall be in operation at all times the aggregate dryer is in operation, in order to comply with this limit (see Appendix A, page 11 of 11, for detailed calculations).

326 IAC 6-4 (Fugitive Dust Emissions)

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

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

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

- (a) Unpaved roads and parking lots due to vehicular traffic; and
- (b) Outdoor aggregate storage piles, conveying and handling.

State Rule Applicability – Individual Facilities

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

The aggregate mixing and drying operation is not subject to the requirements of 326 IAC 6-3-2. This rule does not apply if the limitation established in the rule is less stringent than applicable limitations in 326 IAC 6.5-1 or 326 IAC 12. Since the applicable PM emission limit established by 326 IAC 12, 40 CFR 60, Subpart I, is less than the PM limit that would be established by 326 IAC 6-3-2 (59.79 pounds per hour, see Appendix A, page 11 of 11), the more stringent limit applies and the limit pursuant to 326 IAC 6-3-2 does not apply.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

This rule applies to all facilities with a potential to emit greater than twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide. The 60 MMBtu/hr dryer burning #2 or # 4 distillate oil is subject to the requirements of this rule because the potential sulfur dioxide emissions from this facility is greater than twenty-five (25) tons per year. Therefore, pursuant to this rule the sulfur dioxide emissions from the 60 MMBtu/hr dryer burning #2 or # 4 distillate oil shall be limited to 0.5 lb/MMBtu heat input. This equates to a fuel oil sulfur content limit of 0.5%. Therefore, the sulfur content of the fuel must be less than or equal to 0.5% in order to comply with this rule (See Appendix A, Page 11 of 11 for detailed calculations). The source will comply with this rule by using #2 or # 4 distillate oil with a sulfur content of 0.5% or less in the dryer.

The 0.2 MMBtu/hr hot oil heater and 1125 hp diesel generator are not subject to the requirements of this rule because potential SO₂ emissions from these units are less than 25 tons per year.

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

This source is subject to 326 IAC 7-2-1 (Reporting Requirements) because it has a potential to emit greater than twenty-five (25) tons per year of sulfur dioxide. This rule requires the source to submit to the Office of Air Quality upon request records of sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average.

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

This source is not subject to the provisions of 326 IAC 8-1-6. This rule requires all facilities constructed after January 1, 1980, which have potential VOC emission rates of greater than or equal to 25 tons per year, and which are not otherwise regulated by other provisions of 326 IAC 8, to reduce VOC emissions using Best Available Control Technology (BACT). This source does not have any facilities with potential VOC emissions greater than 25 tons per year, therefore, it is not subject to the requirements of this rule.

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

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

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

This rule applies to any paving application constructed after January 1, 1980 located anywhere in the state. Pursuant to this rule, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

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

This source does not use cutback asphalt or asphalt emulsion. The source shall require prior approval from OAQ before using cutback asphalt or asphalt emulsion.

Testing Requirements

All testing requirements from FESOP No. F137-11923-05211 issued on June 30, 2000 are incorporated into this FESOP Renewal, as follows:

The Permittee shall perform PM, PM-10 and opacity testing utilizing Methods as approved by the Commissioner, at least once every five years from October 1, 2003, the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Previous stack tests to comply with this requirement were conducted on October 1, 2003.

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

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

- (a) The asphalt drum mixer burner, conveyors and material transfer points have applicable compliance monitoring conditions as specified below:
 - (1) Visible emission notations of the asphalt drum mixer burner baghouse stack exhaust and conveyors and material transfer points shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

- (2) 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.
- (3) 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.
- (4) 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.
- (5) 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.
- (6) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer/burner, at least once per day when the aggregate dryer/burner is in operation when venting to the atmosphere. When for any aggregate dryer/burner, the pressure drop across the baghouse 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- Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

- (i) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (ii) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

These monitoring conditions are necessary because the baghouse for the asphalt drum mixer burner must operate properly to ensure compliance with 40 CFR Part 60.90 (Subpart I-Standards of Performance for Hot Mix Asphalt Facilities), 326 IAC 6.5-1-2 (Particulate Emissions Limitations), 326 IAC 2-8 (FESOP) and to render 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

Conclusion

The operation of this portable drum mix asphalt plant shall be subject to the conditions of the attached proposed FESOP Renewal No.: F055-19594-05211.

Company Name:
Plant Location:
County:
Permit Reviewer:

Dave O' Mara Contractors
R. R. # 1, Box 183A, Solsberry, Indiana 47459
Greene
Linda Quigley/EVP

**** aggregate dryer burner****

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

Criteria Pollutant:	$\frac{60 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} * 2,000 \text{ lb/ton}}$	* Ef (lb/MMcf) = (ton/yr)
P M:	1.9 lb/MMcf =	0.50 ton/yr
P M-10:	7.6 lb/MMcf =	2.00 ton/yr
S O 2:	0.6 lb/MMcf =	0.16 ton/yr
N O x:	100.0 lb/MMcf =	26.28 ton/yr
V O C:	5.5 lb/MMcf =	1.45 ton/yr

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.50 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-2, and 1.3-3.

Criteria Pollutant:	$\frac{60 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} * 2,000 \text{ lb/ton}}$	* Ef (lb/1,000 gal) = (ton/yr)
P M:	2.0 lb/1000 gal =	3.75 ton/yr
P M-10:	3.3 lb/1000 gal =	6.19 ton/yr
S O 2:	71.0 lb/1000 gal =	133.28 ton/yr
N O x:	20.0 lb/1000 gal =	37.54 ton/yr
V O C:	0.25 lb/1000 gal =	0.47 ton/yr

The following calculations determine the amount of emissions created by the combustion of #4 distillate fuel oil @ 0.41 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-4, and 1.3-6.

Criteria Pollutant:	$\frac{60 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{150,000 \text{ Btu/gal} * 2,000 \text{ lb/ton}}$	* Ef (lb/1,000 gal) = (ton/yr)
P M:	7.0 lb/1000 gal =	12.26 ton/yr
P M-10:	8.5 lb/1000 gal =	14.89 ton/yr
S O 2:	61.5 lb/1000 gal =	107.75 ton/yr
N O x:	20.0 lb/1000 gal =	35.04 ton/yr
V O C:	0.25 lb/1000 gal =	0.44 ton/yr

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

Criteria Pollutant:		Worst Case Fuel
P M:	12.26 ton/yr	#4 Fuel Oil
P M-10:	14.89 ton/yr	#4 Fuel Oil
S O 2:	133.28 ton/yr	#2 Fuel Oil
N O x:	37.54 ton/yr	#2 Fuel Oil
V O C:	1.45 ton/yr	Natural Gas

****hot oil heaters****

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.50 % sulfur, from both hot oil heaters, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-2, and 1.3-3.

Criteria Pollutant:	<u>1.2 MMBtu/hr * 8,760 hr/yr</u>	* Ef (lb/1,000 gal) = (ton/yr)
	130,864 Btu/gal * 2,000 lb/ton	
P M:	2.0 lb/1000 gal =	0.08 ton/yr*
P M-10:	3.3 lb/1000 gal =	0.13 ton/yr*
S O 2:	71.0 lb/1000 gal =	2.85 ton/yr*
N O x:	20.0 lb/1000 gal =	0.80 ton/yr*
V O C:	0.25 lb/1000 gal =	0.01 ton/yr
C O:	5.0 lb/1000 gal =	0.20 ton/yr

The following calculations determine the amount of emissions created by natural gas combustion, from the 1.0 MMBtu/hr hot oil heater, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1 and 1.4-2.

Criteria Pollutant:	<u>1 MMBtu/hr * 8,760 hr/yr</u>	* Ef (lb/MMcf) = (ton/yr)
	1000 Btu/cf * 2,000 lb/ton	
P M:	1.9 lb/MMcf =	0.01 ton/yr
P M-10:	7.6 lb/MMcf =	0.03 ton/yr
S O 2:	0.6 lb/MMcf =	0.00 ton/yr
N O x:	100.0 lb/MMcf =	0.44 ton/yr
V O C:	5.5 lb/MMcf =	0.02 ton/yr*
CO:	84.0 lb/MMcf =	0.37 ton/yr*

asterisk = worst case emissions for hot oil heaters

****diesel generator****

The following calculations determine the amount of emissions created by the operation of the 1125 hp diesel generator, based on 8760 hours of use. The emission factors used are based on those listed in US EPA's AP-42, Section 3-3, Table 3.3-1.

Criteria Pollutant:	<u>1125 hp * 8760 hr/yr</u>	* Ef (lb/hp-hr) = (ton/yr)
	2,000 lb/ton	
P M:	0.0022 lb/hp-hr	10.84 ton/yr
P M-10:	0.0022 lb/hp-hr	10.84 ton/yr
S O 2:	0.00205 lb/hp-hr	10.10 ton/yr
N O x:	0.031 lb/hp-hr	152.75 ton/yr
V O C:	0.00251 lb/hp-hr	12.37 ton/yr
C O:	0.00668 lb/hp-hr	32.92 ton/yr

Limited Emissions (based on 2,200 hours of operation per year).

P M:	0.0022 lb/hp-hr	2.72 ton/yr
P M-10:	0.0022 lb/hp-hr	2.72 ton/yr
S O 2:	0.00205 lb/hp-hr	2.54 ton/yr
N O x:	0.031 lb/hp-hr	38.36 ton/yr
V O C:	0.00251 lb/hp-hr	3.11 ton/yr
C O:	0.00668 lb/hp-hr	8.27 ton/yr

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

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-3 for a drum mix dryer which has the capability of combusting either fuel oil or natural gas:

Pollutant:	<u>Ef</u>	<u>lb/ton x</u>	<u>225</u>	<u>ton/hr x</u>	<u>8,760 hr/yr</u>
			2,000	lb/ton	
Criteria Pollutant:	P M:	28 lb/ton =		27,594.00 ton/yr	
	P M-10:	6.4 lb/ton =		6,307.20 ton/yr	
	VOC:	0.032 lb/ton =		31.54 ton/yr	
	HCl:	0.00021 lb/ton =		0.21 ton/yr	
	CO:	0.13 lb/ton =		128.12 ton/yr	
	NOx:	0.055 lb/ton =		54.20 ton/yr	

The HCl emission factor for aggregate drying is from Table 11.1-8 of Section 11.1 of AP-42. CO and NOx emission factors from Table 11.1-7 of Section 11.1 of AP-42.

**** conveying / handling ****

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

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

$$= 1.12E-03 \text{ lb PM-10/ton}$$

$$= 2.37E-03 \text{ lb PM/ton}$$

where k = 0.35 (particle size multiplier for <10um)
0.74 (particle size multiplier for <30um)

U = 12 mph mean wind speed
M = 4.5 material moisture content (%)

$$\frac{225 \text{ ton/hr} \cdot 8,760 \text{ hrs/yr} \cdot E_f \text{ (lb/ton of material)}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$$

Total PM 10 Emissions: 1.11 tons/yr
Total PM Emissions: 2.34 tons/yr

**** unpaved roads ****

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

I. Dump Truck

$$12 \text{ trip/hr} \times 0.1 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 21,024 \text{ mile/yr}$$

$$E_f = k \cdot (s/12)^a \cdot (W/3)^b$$

$$= 1.93 \text{ lb PM-10/mile}$$

$$= 7.59 \text{ lb PM/mile}$$

where k = 1.5 (particle size multiplier for PM-10)
k = 4.9 (particle size multiplier for PM)
s = 4.8 mean % silt content of unpaved roads
a = 0.9 Constant for PM-10
a = 0.7 Constant for PM
b = 0.45 Constant for PM and PM-10
W = 33 tons average vehicle weight

PM-10:	$\frac{1.93 \text{ lb/mi} \times 21,024 \text{ mi/yr}}{2000 \text{ lb/ton}}$	20.34 tons/yr
PM:	$\frac{7.59 \text{ lb/mi} \times 21,024 \text{ mi/yr}}{2000 \text{ lb/ton}}$	79.79 tons/yr

II. Front End Loader

$$40 \text{ trip/hr} \times 0.08 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 56,064 \text{ mile/yr}$$

$$E_f = k \cdot (s/12)^a \cdot (W/3)^b$$

$$= 1.85 \text{ lb PM-10/mile}$$

$$= 7.27 \text{ lb PM/mile}$$

where k = 1.5 (particle size multiplier for PM-10)
k = 4.9 (particle size multiplier for PM)
s = 4.8 mean % silt content of unpaved roads
a = 0.9 Constant for PM-10
a = 0.7 Constant for PM
b = 0.45 Constant for PM and PM-10
W = 30 tons average vehicle weight

PM-10:	$\frac{1.85 \text{ lb/mi} \times 56,064 \text{ mi/yr}}{2000 \text{ lb/ton}}$	51.95 tons/yr
PM:	$\frac{7.27 \text{ lb/mi} \times 56,064 \text{ mi/yr}}{2000 \text{ lb/ton}}$	203.84 tons/yr

**** storage ****

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

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	P M Emissions tons/yr	P M-10 Emissions tons/yr
Aggregate	4.8	0.10	20,000	0.10	0.04
Sand	4.8	0.05	10,000	0.05	0.02

Total

0.15

0.05

Methodology: PM Emissions = 1.7*(wt% silt content/1.5)*(365-p)/235*(f/15)*pile size/2000*365

Where:

p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

PM-10 Emissions = 35% of PM emissions

**** load-out ****

The following calculations determine the amount of emissions created by plant load-out, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

$$PM/PM10\ E_f = 0.000181 + 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 5.22E-04\ \text{lb PM or PM-10 per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

PM/PM10 = 0.51 tons/yr

Total PAH HAPs = 0.02 tons/yr (5.93% of Organic PM emissions per AP-42)*

Phenol = 0.00 tons/yr (1.18% of Organic PM emissions per AP-42)*

$$TOC\ E_f = 0.0172(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 4.16E-03\ \text{lb TOC per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

VOC = 3.85 tons/yr (94% of TOC emissions per AP-42)

Worst Case Single HAP (Xylenes) = 0.02 tons/yr (0.49% of TOC emissions per AP-42)

Total Volatile HAPs = 0.06 tons/yr (1.5% of TOC emissions per AP-42)

$$CO\ E_f = 0.00558(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 1.35E-03\ \text{lb CO per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

CO = 1.33 tons/yr

**** silo filling ****

The following calculations determine the amount of emissions created by silo filling, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

$$PM/PM10\ E_f = 0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 5.86E-04\ \text{lb PM or PM-10 per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

PM/PM10 = 0.58 tons/yr

Total PAH HAPs = 0.04 tons/yr (11.40% of Organic PM emissions per AP-42)*

$$TOC\ E_f = 0.0504(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 1.22E-02\ \text{lb TOC per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

VOC = 12.01 tons/yr (100% of TOC emissions per AP-42)

Worst Case Single HAP (Formaldehyde) = 0.08 tons/yr (0.69% of TOC emissions per AP-42)

Total Volatile HAPs = 0.16 tons/yr (1.3% of TOC emissions per AP-42)

$$CO\ E_f = 0.00488(-V)e^{((0.0251)(T+460)-20.43)}$$

$$= 1.18E-03\ \text{lb CO per ton of asphalt mix produced}$$

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)
T = 325

hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

CO = 1.16 tons/yr

* Organic PM emissions are calculated using the equation from Table 11.1-14.

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

= 3.41E-04 lb PM or PM-10 per ton of asphalt mix produced

where V = -0.5 asphalt volatility (default value of -0.5 used per AP-42)

T = 325 hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

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

Criteria Pollutants:	P M:	27,904.40 ton/yr	
	P M-10:	6,407.60 ton/yr	
	S O 2:	146.23 ton/yr	
	N O x:	191.10 ton/yr	
	V O C:	61.24 ton/yr	(VOCs include HAPs from aggregate drying operation)
	C O:	163.89 ton/yr	
	HCl:	0.21 ton/yr	

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

In order to qualify for the FESOP program, this facility must limit PM-10, SO2, CO and NOx emissions to less than 100.0 tons per year. Consequently, SO2 emissions from the aggregate dryer are being limited to 94.51 tons per year (99.9 ton/yr - 5.39 ton/yr from the other combustion sources) and CO emissions are being limited to 88.78 tons per year (99.9 ton/yr - 11.12 ton/yr from other combustion sources).

* Emissions of PM and PM-10 from aggregate drying operations are controlled with a 99.900 % control efficiency.

The following calculations determine the amount of emissions created by No.2 distillate fuel oil @ 0.50 % sulfur based on a fuel usage limitation of 2,662,254 gal/yr:

No. 2 Distillate Oil: $\frac{2,662,254 \text{ gal/yr}}{2,000 \text{ lb/ton}}$ * Ef (lb/1,000 gal) = (ton/yr)

P M:	2.0 lb/1000 gal =	2.66E-03 ton/yr
P M-10:	3.3 lb/1000 gal =	4.39E-03 ton/yr
S O 2:	71.0 lb/1000 gal =	94.51 ton/yr
N O x:	20.0 lb/1000 gal =	26.62 ton/yr
V O C:	0.3 lb/1000 gal =	0.33 ton/yr

Pursuant to MPR No. 055-18675-05211, issued on May 27, 2004, the SO2 emissions from No. 4 fuel oil combustion shall be limited to less than 25 tpy.

The following calculations determine the amount of emissions created by No. 4 distillate fuel oil @ 0.41 % sulfur based on a fuel usage limitation of 812,993 gal/yr:

No. 4 Oil: $\frac{812,993 \text{ gal/yr}}{2000 \text{ lb/ton}}$ * Ef (lb/1000 gal) = (ton/yr)

P M:	7.0 lb/1000 gal =	0.0028 ton/yr *
P M-10:	8.5 lb/1000 gal =	0.0035 ton/yr *
S O 2:	61.5 lb/1000 gal =	25.00 ton/yr
N O x:	20.0 lb/1000 gal =	8.13 ton/yr
V O C:	0.3 lb/1000 gal =	0.10 ton/yr

The following calculations determine the amount of emissions created by natural gas combustion:

Criteria Pollutant: $\frac{60 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} * 2,000 \text{ lb/ton}}$ * Ef (lb/MMcf) = (ton/yr)

P M:	1.9 lb/MMcf =	0.50 ton/yr
P M-10:	7.6 lb/MMcf =	2.00 ton/yr
S O 2:	0.6 lb/MMcf =	0.16 ton/yr
N O x:	100.0 lb/MMcf =	26.28 ton/yr
V O C:	5.5 lb/MMcf =	1.45 ton/yr

Criteria Pollutant:

P M:	0.50 ton/yr *	Worst Case Fuel
P M-10:	2.00 ton/yr *	natural gas
S O 2:	94.51 ton/yr	natural gas
N O x:	26.62 ton/yr	#2 Fuel Oil
V O C:	0.33 ton/yr	#2 Fuel Oil

Fuel Usage Limitations

Fuel Oil: #4 distillate fuel oil

$$\frac{25 \text{ tons SO}_2/\text{year limited}}{107.75 \text{ tons SO}_2/\text{year potential}} * 3504.00 \frac{\text{Kgals}}{\text{year potential}} = 812.99 \frac{\text{Kgals}}{\text{year limited}}$$

Fuel Oil: #2 distillate fuel oil

$$\frac{94.51 \text{ tons SO}_2/\text{year limited}}{133.28 \text{ tons SO}_2/\text{year potential}} * 3754.29 \frac{\text{Kgals}}{\text{year potential}} = 2662.25 \frac{\text{Kgals}}{\text{year limited}}$$

Fuel equivalence limit for #2 distillate fuel oil based on SO2 emissions from #4 distillate fuel oil

$$\frac{133.28 \text{ #2 F.O. potential emissions (ton/yr)}}{3754.29 \text{ #2 F.O. potential usage (kgal/yr)}} / \frac{107.75 \text{ #4 F.O. potential emissions (ton/yr)}}{3504.00 \text{ #4 F.O. potential usage (kgal/yr)}} = 1.1545 \frac{\text{Kgal #4 F.O. burned}}{\text{Kgal #2 F.O. burned}}$$

Aggregate Dryer limited production in order to limit CO emissions

Pollutant:	Ef	lb/ton x	155.9	ton/hr x	8,760	hr/yr
			2,000	lb/ton		
CO:	0.13	lb/ton =		88.77	ton/yr	
NOx:	0.055	lb/ton =		37.56	ton/yr	

**** load-out with production limit****

The following calculations determine the amount of emissions created by plant load-out, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

$$\begin{aligned} \text{PM/PM}_{10} \text{ Ef} &= 0.000181 + 0.00141(-V)e((0.0251)(T+460)-20.43) \\ &= 5.22\text{E-}04 \text{ lb PM or PM-10 per ton of asphalt mix produced} \\ \text{where V} &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ \text{T} &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

PM/PM₁₀ = 0.36 tons/yr
Total PAH HAPs = 0.00 tons/yr (5.93% of Organic PM emissions per AP-42)*
Phenol = 0.00 tons/yr (1.18% of Organic PM emissions per AP-42)*

$$\begin{aligned} \text{TOC Ef} &= 0.0172(-V)e((0.0251)(T+460)-20.43) \\ &= 4.16\text{E-}03 \text{ lb TOC per ton of asphalt mix produced} \\ \text{where V} &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ \text{T} &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

VOC = 2.67 tons/yr (94% of TOC emissions per AP-42)
Worst Case Single HAP (Xylenes) = 0.01 tons/yr (0.49% of TOC emissions per AP-42)
Total Volatile HAPs = 0.04 tons/yr (1.5% of TOC emissions per AP-42)

$$\begin{aligned} \text{CO Ef} &= 0.00558(-V)e((0.0251)(T+460)-20.43) \\ &= 1.35\text{E-}03 \text{ lb CO per ton of asphalt mix produced} \\ \text{where V} &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ \text{T} &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

CO = 0.92 tons/yr

**** silo filling with production limit ****

The following calculations determine the amount of emissions created by silo filling, based on 8,760 hours of use and USEPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

$$\begin{aligned} \text{PM/PM10 Ef} &= 0.000332 + 0.00105(-V)e^{((0.0251)(T+460)-20.43)} \\ &= 5.86E-04 \text{ lb PM or PM-10 per ton of asphalt mix produced} \\ \text{where } V &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ T &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

PM/PM10 = 0.40 tons/yr
Total PAH HAPs = 0.00 tons/yr (11.40% of Organic PM emissions per AP-42)*

$$\begin{aligned} \text{TOC Ef} &= 0.0504(-V)e^{((0.0251)(T+460)-20.43)} \\ &= 1.22E-02 \text{ lb TOC per ton of asphalt mix produced} \\ \text{where } V &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ T &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

VOC = 8.32 tons/yr (100% of TOC emissions per AP-42)
Worst Case Single HAP (Formaldehyde) = 0.06 tons/yr (0.69% of TOC emissions per AP-42)
Total Volatile HAPs = 0.11 tons/yr (1.3% of TOC emissions per AP-42)

$$\begin{aligned} \text{CO Ef} &= 0.00488(-V)e^{((0.0251)(T+460)-20.43)} \\ &= 1.18E-03 \text{ lb CO per ton of asphalt mix produced} \\ \text{where } V &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ T &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

CO = 0.81 tons/yr

* Organic PM emissions are calculated using the equation from Table 11.1-14.

$$\begin{aligned} \text{Organic PM Ef} &= 0.00141(-V)e^{((0.0251)(T+460)-20.43)} \\ &= 3.41E-04 \text{ lb PM or PM-10 per ton of asphalt mix produced} \\ \text{where } V &= -0.5 \text{ asphalt volatility (default value of -0.5 used per AP-42)} \\ T &= 325 \text{ hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)} \end{aligned}$$

**** conveying / handling with production limit****

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

$$\begin{aligned} E &= k \cdot (0.0032) \cdot \left(\frac{U}{5} \right)^{1.3} \cdot \left(\frac{M}{2} \right)^{1.4} \\ &= 1.12E-03 \text{ lb PM-10/ton} \\ &= 2.37E-03 \text{ lb PM/ton} \end{aligned}$$

where k = 0.35 (particle size multiplier for <10um)
0.74 (particle size multiplier for <30um)
U = 12 mph mean wind speed
M = 4.5 material moisture content (%)

$$\frac{155.9 \text{ ton/hr} \cdot 8,760 \text{ hrs/yr} \cdot \text{Ef (lb/ton of material)}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$$

Total PM 10 Emissions: 0.77 tons/yr
Total PM Emissions: 1.62 tons/yr

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

hot oil heaters:		nonfugitive		
P M:	0.08 ton/yr x	100.00%	emitted after controls =	0.08 ton/yr
P M-10:	0.13 ton/yr x	100.00%	emitted after controls =	0.13 ton/yr
emergency generator:		nonfugitive		
P M:	10.84 ton/yr x	25.11%	emitted after controls =	2.72 ton/yr
P M-10:	10.84 ton/yr x	25.11%	emitted after controls =	2.72 ton/yr
aggregate drying:		nonfugitive		
P M:	27,594.00 ton/yr x	0.10%	emitted after controls =	27.59 ton/yr
P M-10:	6,307.20 ton/yr x	0.10%	emitted after controls =	6.31 ton/yr
VOC:	31.54 ton/yr x	100.00%	emitted after controls =	31.54 ton/yr
HCl:	0.21 ton/yr x	100.00%	emitted after controls =	0.21 ton/yr
CO:	128.12 ton/yr x	69.29%	emitted after controls =	88.77 ton/yr
NOx:	54.20 ton/yr x	69.29%	emitted after controls =	37.56 ton/yr
conveying/handling:		fugitive		
P M:	2.34 ton/yr x	35.00%	emitted after controls =	0.57 ton/yr
P M-10:	1.11 ton/yr x	35.00%	emitted after controls =	0.27 ton/yr
unpaved roads:		fugitive		
P M:	283.63 ton/yr x	50.00%	emitted after controls =	141.82 ton/yr
P M-10:	72.29 ton/yr x	50.00%	emitted after controls =	36.14 ton/yr
load-out & silo filling:		fugitive		
P M:	1.09 ton/yr x	69.29%	emitted after controls =	0.76 ton/yr
P M-10:	1.09 ton/yr x	69.29%	emitted after controls =	0.76 ton/yr
VOC:	15.86 ton/yr x	69.29%	emitted after controls =	10.99 ton/yr
CO:	2.49 ton/yr x	69.29%	emitted after controls =	1.73 ton/yr
storage piles:		fugitive		
P M:	0.15 ton/yr x	50.00%	emitted after controls =	0.08 ton/yr
P M-10:	0.05 ton/yr x	50.00%	emitted after controls =	0.03 ton/yr

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

Criteria Pollutant:

	Non-Fugitive	Fugitive	Total
PM:	30.90 ton/yr	143.22 ton/yr	174.11 ton/yr
PM-10:	11.16 ton/yr	37.20 ton/yr	48.36 ton/yr
S O 2:	99.90 ton/yr	0.00 ton/yr	99.90 ton/yr
N O x:	76.72 ton/yr	0.00 ton/yr	76.72 ton/yr
V O C:	35.00 ton/yr	10.99 ton/yr	45.99 ton/yr
C O:	97.40 ton/yr	1.73 ton/yr	99.13 ton/yr

Hazardous Air Pollutants (HAPs)

**** aggregate dryer burner****

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.50 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-10.

Hazardous Air Pollutants (HAPs):

		60 MMBtu/hr * 8760 hr/yr 2,000 lb/ton	* Ef (lb/10 ¹² Btu) = (ton/yr)	
			Potential To Emit	Limited Emissions
Arsenic:	4 lb/10 ¹² Btu =		1.05E-03 ton/yr	1.05E-06 ton/yr
Beryllium:	3 lb/10 ¹² Btu =		7.88E-04 ton/yr	7.88E-07 ton/yr
Cadmium:	3 lb/10 ¹² Btu =		7.88E-04 ton/yr	7.88E-07 ton/yr
Chromium:	3 lb/10 ¹² Btu =		7.88E-04 ton/yr	7.88E-07 ton/yr
Lead:	9 lb/10 ¹² Btu =		2.37E-03 ton/yr	2.37E-06 ton/yr
Manganese:	6 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
Mercury:	3 lb/10 ¹² Btu =		7.88E-04 ton/yr	7.88E-07 ton/yr
Nickel:	3 lb/10 ¹² Btu =		7.88E-04 ton/yr	7.88E-07 ton/yr
Selenium:	15 lb/10 ¹² Btu =		3.94E-03 ton/yr	3.94E-06 ton/yr
Total HAPs =			1.29E-02 ton/yr	1.29E-05 ton/yr

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

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-10 for a drum mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (natural gas combustion).

Pollutant:		limited:	ton/hr x		
Ef		lb/ton x	ton/hr x	8760 hr/yr	
Hazardous Air Pollutants (HAPs):		2000	lb/ton		
				Potential To Emit	Limited Emissions
Acetaldehyde:	3.20E-04	lb/ton =		0.32 ton/yr	0.22 ton/yr
Benzene:	2.80E-04	lb/ton =		0.28 ton/yr	0.19 ton/yr
Ethylbenzene:	2.20E-03	lb/ton =		2.17 ton/yr	1.50 ton/yr
Formaldehyde:	7.40E-04	lb/ton =		0.73 ton/yr	0.51 ton/yr
Quinone:	2.70E-04	lb/ton =		0.27 ton/yr	0.18 ton/yr
Toluene:	1.00E-03	lb/ton =		0.99 ton/yr	0.68 ton/yr
Total PAH Haps:	1.100E-04	lb/ton =		0.11 ton/yr	0.08 ton/yr
Xylene:	2.70E-03	lb/ton =		2.66 ton/yr	1.84 ton/yr
Total HAPs =				7.51 ton/yr	5.20 ton/yr

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

Hazardous Air Pollutants (HAPs):

Arsenic:	0.001	ton/yr
Acetaldehyde:	0.315	ton/yr
Benzene:	0.276	ton/yr
Beryllium:	0.001	ton/yr
Cadmium:	0.001	ton/yr
Chromium:	0.001	ton/yr
Ethylbenzene:	2.168	ton/yr
Formaldehyde:	0.729	ton/yr
Quinone:	0.266	ton/yr
Lead:	0.002	ton/yr
Manganese:	0.002	ton/yr
Mercury:	0.001	ton/yr
Nickel:	0.001	ton/yr
Selenium:	0.004	ton/yr
Toluene:	0.986	ton/yr
Total PAH:	0.108	ton/yr
Xylene:	2.661	ton/yr
Hydrogen Chloride (HCL):	0.207	ton/yr
Total PAH(silo filling and load out):	0.058	ton/yr
Total Volatile HAPs (silo filling and load out):	0.218	ton/yr
Total:	8.005	ton/yr

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

Hazardous Air Pollutants (HAPs):

Arsenic:	0.000	ton/yr
Acetaldehyde:	0.219	ton/yr
Benzene:	0.191	ton/yr
Beryllium:	0.000	ton/yr
Cadmium:	0.000	ton/yr
Chromium:	0.000	ton/yr
Ethylbenzene:	1.502	ton/yr
Formaldehyde:	0.505	ton/yr
Quinone:	0.184	ton/yr
Lead:	0.000	ton/yr
Manganese:	0.000	ton/yr
Mercury:	0.000	ton/yr
Nickel:	0.000	ton/yr
Selenium:	0.000	ton/yr
Toluene:	0.683	ton/yr
Total POM:	0.075	ton/yr
Xylene:	1.844	ton/yr
Hydrogen Chloride (HCL):	0.207	ton/yr
Total PAH(silo filling and load out):	0.000	ton/yr
Total Volatile HAPs (silo filling and load out):	0.151	ton/yr
Total:	5.561	ton/yr

**** miscellaneous ****

326 IAC 7 Compliance Calculations:

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

$$\begin{aligned} 0.5 \text{ lb/MMBtu} \times 140,000 \text{ Btu/gal} &= 70 \text{ lb/1000gal} \\ 70 \text{ lb/1000gal} / 142 \text{ lb/1000 gal} &= 0.5 \% \end{aligned}$$

Sulfur content must be less than or equal to 0.5% to comply with 326 IAC 7.

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

$$\begin{aligned} 0.41 \text{ lb/MMBtu} \times 150,000 \text{ Btu/gal} &= 61.5 \text{ lb/1000gal} \\ 61.5 \text{ lb/1000gal} / 150 \text{ lb/1000 gal} &= 0.4 \% \end{aligned}$$

Sulfur content must be less than or equal to 0.4% to comply with 326 IAC 7.

326 IAC 6-3-2 Compliance Calculations:

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

$$\text{limit} = 55 * (225 ^{0.11}) - 40 = 59.79 \text{ lb/hr or } 261.90 \text{ ton/yr}$$

Since the emission limits pursuant to Subpart I of 36.86 tons per year and 326 IAC 6.5-1-2 of 27.65 tons per year are more stringent than this limit, the limit pursuant to 326 IAC 6-3-2 does not apply. The emission limit pursuant to Subpart I shall also render the requirements of 326 IAC 2-2 (PSD) not applicable.

PM-10 Emission Limit for Aggregate Dryer:

$$\begin{aligned} (99.9 \text{ tons PM-10/yr} - 41.24 \text{ tons PM-10/yr from other sources}) \\ = 58.66 \text{ tons PM-10/yr} = 13.39 \text{ lbs/hr} \end{aligned}$$

PM-10 emissions from the aggregate dryer are controlled to 1.44 lbs/hr < 13.39 lbs/hr
Based on a maximum asphalt mix throughput of 225 tons/hr, this emission limit is equivalent to 0.060 lb PM10 per ton of asphalt mix.

PM Emission Limit for Aggregate Dryer (PSD):

$$\begin{aligned} (249 \text{ tons PM/yr} - 148.2 \text{ tons PM/yr from other sources}) \\ = 100.80 \text{ tons PM/yr} = 23.01 \text{ lbs/hr} \end{aligned}$$

PM emissions from the aggregate dryer are controlled to 16.80 lbs/hr < 23.01 lbs/hr
Based on a maximum asphalt mix throughput of 225 tons/hr, this emission limit is equivalent to 0.10 lb PM per ton of asphalt mix.

Compliance with NSPS (326 IAC 12; 40 CFR 60.90 to 60.93, Subpart I) and 326 IAC 6.5-1-2

The following calculations determine compliance with 326 IAC 6.5-1-2 (for counties listed in 326 IAC 6.5-1-7) and NSPS, which limits stack emissions from asphalt plants to 0.03 gr/dscf (when in counties listed in 326 IAC 6.5-1-7), and 0.04 gr/dscf (when not located in those counties):

$$\frac{27.59 \text{ ton/yr} * 2000 \text{ lb/ton} * 7000 \text{ gr/lb}}{525,600 \text{ min/yr} * 24,549 \text{ dscf/min}} = 0.030 \text{ gr/dscf} \quad (\text{will comply})$$

$$\begin{aligned} \text{Allowable particulate emissions under NSPS equate to} & 36.86 \text{ tons per year.} & 8.42 \text{ lbs/hr} \\ \text{Allowable particulate emissions under 326 IAC 6.5-1-2 equate to} & 27.65 \text{ tons per year.} & 6.31 \text{ lbs/hr} \end{aligned}$$

Note:

$$\begin{aligned} \text{SCFM} &= 37,000 \text{ acfm} * (460 + 68) * (1 - 0.045) / (460 + 300) \\ &= 24,549 \text{ scfm} \end{aligned}$$

Assumes exhaust gas temperature of 300F and exhaust gas flow of 37,000 acfm.