

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
OFFICE OF AIR MANAGEMENT**

**Dave O'Mara Contractor, Inc.  
(Portable)**

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 and 326 IAC 2-1-3.2, 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.: F031-8707-05047	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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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 Management (OAM) and presented in the permit application.

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

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

Responsible Official: Amy Boswell  
Initial Source Address: 922 South County Road 800E, Greensburg, Indiana, 47240  
Mailing Address: P. O. Box 423, North Vernon, Indiana 47265  
SIC Code: 2951  
Initial County Location: Decatur  
County Status: Attainment for all criteria pollutants  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under PSD and Emission Offset Rules

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

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

- (a) one (1) portable asphalt drum-mix plant, with a maximum capacity of 300 tons per hour, equipped with one (1) #2 fuel oil fired aggregate dryer burner with a maximum rated capacity of 72 million British thermal units (MMBtu) per hour, using natural gas as back-up fuel, and one (1) pulse jet baghouse for particulate control, exhausting at one (1) stack, identified as #1;
- (b) four (4) compartment cold feed bins with feeders and collection conveyors;
- (c) one (1) 30" incline conveyor with 4' x 10' scalping screen;
- (d) two (2) conveyors and one (1) screen to transfer aggregate from recycle bin to asphalt dryer;
- (e) one (1) conveyor to transfer product from asphalt dryer to storage silo;
- (f) two (2) 25,000 gallon asphalt storage tanks; and
- (g) one (1) 11,000 gallon #2 fuel oil storage tank.

### A.3 Insignificant Activities [326 IAC 2-7-1(20)] [326 IAC 2-8-3(c)(3)(I)]

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This portable source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (a) one (1) #2 fuel oil fired hot oil heater, with a rated capacity of 0.828 MMBtu/hr;
- (b) unpaved roads with public access;
- (c) one (1) recycle bin with 25 ton storage capacity;
- (d) one (1) storage silo with 70 ton storage capacity;
- (e) aggregate storage piles with a total storage capacity of 12,500 tons;
- (f) combustion source flame safety purging on startup; and
- (g) a petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

A.4 FESOP Permit 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 Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions Superseded [326 IAC 2]

This permit supersedes the operating conditions of all construction and operating permits issued to this portable source under 326 IAC 2 prior to the effective date of this FESOP.

## **SECTION B GENERAL CONDITIONS**

### **B.1 General Requirements [IC 13-15] [IC 13-17]**

The Permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.

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

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

### **B.3 Permit Term [326 IAC 2-8-4(2)]**

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

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

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

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

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

### **B.6 Severability [326 IAC 2-8-4(4)] [326 IAC 2-8-7(a)(3)]**

- (a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- (b) Indiana rules from 326 IAC quoted in conditions in this permit are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

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

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

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

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

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

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to the U.S. EPA and IDEM, OAM along with a claim of confidentiality.

Such confidentiality claims shall meet the requirements of 40 CFR 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAM).

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

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

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

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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) This certification shall be submitted on the attached Certification Form.
- (c) A responsible official is defined at 326 IAC 2-7-1(33).

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

- (a) The Permittee shall annually certify that this source has complied with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall be submitted in letter form no later than July 1 of each year to:

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

- (b) This annual compliance certification report required by this permit shall be timely if delivered by any method and received and stamped by IDEM, OAM on or before the date it is due. [326 IAC 2-5-3]
- (c) The annual compliance certification report shall include the following:
  - (1) The identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAM may require to determine the compliance status of the source.
- (d) The Permittee shall also annually certify that this source is in compliance with additional requirements as may be specified under Sections 114(a)(3) and 504(b) of the Clean Air Act.

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall prepare, maintain and implement Preventive Maintenance Plans (PMP) within ninety (90) days after the issuance of this permit, including the following information on each:
  - (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;
  - (3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;
  - (4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and
  - (5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.
- (b) PMPs shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM.

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

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

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

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

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

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

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

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

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM 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, OAM by telephone or facsimile of an emergency lasting more than one (1) hour in compliance 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.

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

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

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

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms or their substantial equivalent.

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]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM 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, OAM, 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, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM 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)]

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM and shall include, at minimum, 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(20).  
  
Request for renewal shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015
- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) The Permittee has a duty to submit a timely and complete permit renewal application. A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
    - (B) Delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

- (2) If IDEM, OAM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM 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, OAM, any additional information identified as needed to process the application.

**B.18 Administrative Permit Amendment [326 IAC 2-8-10]**

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- (a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).
- (b) An administrative permit amendment may be made by IDEM, OAM, consistent with the procedures specified under 326 IAC 2-8-10(b).
- (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]**

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- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.
- (b) Minor modification of this permit shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).
- (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).
- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

**B.20 Significant Permit Modification [326 IAC 2-8-11(d)]**

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- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Any significant change in existing monitoring permit terms or conditions and every

relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.

- (c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]

Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.

B.22 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

B.23 Operational Flexibility [326 IAC 2-8-15]

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

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

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

and

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



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

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

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

- (b) For each such change, the required written notification shall include the following:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (c) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) 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, OAM or U.S. EPA is required.
- (e) 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.24 Construction Permit Requirement [326 IAC 2]**

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Modification, construction, or reconstruction shall be permitted as required by and in accordance with 326 IAC 2.

**B.25 Inspection and Entry [326 IAC 2-8-5(a)(2)]**

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Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

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

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.  
[326 IAC 2-8-5(a)(4)]

B.26 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-8-10]

Pursuant to 326 IAC 2-1-6 and 2-8-10:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner.
- (c) IDEM, OAM shall reserve the right to issue a new permit.

B.27 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, consistent with the fee schedule established in 326 IAC 2-8-16.
- (b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.
- (c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM, OAM or in a time period that is consistent with the payment schedule issued by IDEM, OAM.
- (d) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-5674 (ask for OAM, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 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 from the entire source shall be limited to less than one-hundred (100) tons per three hundred sixty-five (365) consecutive day period. This limitation shall also make the requirements of 326 IAC 2-2 (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 three hundred sixty-five (365) consecutive day 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 three hundred sixty-five (365) consecutive day period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(20). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

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

- (a) Visible emissions shall not exceed an average of thirty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

#### C.3 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.

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall be in violation of 326 IAC 6-4 (Fugitive Dust Emissions) if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated. Observations of visible emissions crossing the property line of the source at or near ground level must be made by a qualified representative of IDEM. [326 IAC 6-4-5(c)].

C.6 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 June 18, 1997. The plan consists of watering the following fugitive emission activities on an as needed basis:

:

- (a) Paved roads and parking lots due to vehicular traffic;
- (b) Aggregate stockpile operations; and
- (c) Outdoor aggregate conveying and handling.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

- (a) All equipment that may emit pollutants into the ambient air shall be properly operated to meet the requirements of this permit and maintained in accordance with Section B - Preventive Maintenance Plan.
- (b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times that the emission unit vented to the control equipment is in operation.
- (c) The Permittee shall perform all necessary maintenance according to the Preventive Maintenance Plan and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times such that the requirements of this permit are met.

C.8 Asbestos Abatement Projects - Accreditation [326 IAC 14-10] [326 IAC 18-1]  
[40 CFR 61, Subpart M]

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector must be Indiana accredited is not federally enforceable.

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

### **C.9 Performance Testing [326 IAC 3-2.1]**

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All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures), utilizing methods approved by the IDEM,OAM.

The test protocol shall be submitted to:

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

no later than thirty-five (35) days before the intended test date.[326 IAC 3-2.1-2(a)]

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

### **C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

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

in writing no more than ninety (90) days after receipt of this permit, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

### **C.11 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]**

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- (a) The Permittee shall perform all necessary maintenance and make all necessary and reasonable attempts to keep all required monitoring equipment in proper operating condition at all times.
- (b) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.

- (c) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment.
- (d) Preventive Maintenance Plans of the monitors shall be implemented. In addition, prompt corrective action shall be initiated whenever indicated.

C.12 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR 60, Appendix A, as appropriate, unless some other method is specified in this permit.

C.13 Pressure Gauge Specifications

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

C.14 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) Written notification is to be 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
  - (3) Waste disposal site.
- (c) The Permittee shall postmark or deliver the notice 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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

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

**Corrective Actions [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

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

(a) Submit:

- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
- (2) As part of the compliance certification submitted under 326 IAC 2-8-5(a)(1), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- (3) A verification to IDEM, OAM that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

(b) Provide annual certification to IDEM, OAM that the Risk Management Plan is being properly implemented.

**C.16 Compliance Monitoring Plan - Failure to Take Corrective Action [326 IAC 2-8-4(3)]**

---

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

- (1) This condition;
- (2) The Compliance Determination Requirements in Section D of this permit;
- (3) The Compliance Monitoring Requirements in Section D of this permit;
- (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
- (5) The Preventive Maintenance Plan described in Section B, Preventive Maintenance Plan, of this permit.

- (b) For each compliance monitoring condition of this permit appropriate corrective actions, as described in the Preventive Maintenance Plan, shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the corrective actions within the prescribed time contained within the Preventive Maintenance Plan shall constitute a violation of the permit unless taking the corrective action set forth in the Preventive Maintenance Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee may be excused from taking further corrective action for any of the following reasons:
  - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further corrective actions providing that prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied; or
  - (3) An automatic measurement was taken when the process was not operating; or
  - (4) The Permittee determines that the process has already returned to operating within "normal" parameters and no corrective action is required.
- (d) Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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, appropriate corrective actions shall be taken. A description of these corrective actions shall be submitted to IDEM, OAM within thirty (30) days of receipt of the test results. These corrective actions shall be implemented immediately unless notified by IDEM, OAM that they are not acceptable. The Permittee shall make every effort to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM reserves the right to utilize enforcement activities to resolve the non-compliant stack test.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

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

### **C.18 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]**

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- (a) The Permittee shall submit a certified, annual emission statement that meets the requirements of 326 IAC 2-6 (Emission Reporting). This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

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

- (b) This annual emission statement required by this permit shall be timely if delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]

### **C.19 Monitoring Data Availability**

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- (a) All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) When the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

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

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- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one (1) hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include, where applicable:
- (1) The date, place, and time of sampling or measurements;

- (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) Records of any required preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it. Such records may include, but are not limited to: work orders, quality assurance procedures, quality control procedures, operator's standard operating procedures, manufacturer's specifications or their equivalent, and equipment "troubleshooting" guidance.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) 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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if delivered by any method and received and stamped by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]
  - (c) Unless otherwise specified in this permit any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.
  - (d) All instances of deviations from any requirements of this permit must be clearly identified in such reports.
  - (e) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.
  - (f) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

## Portable Source Requirement

### C.22 Relocation of Portable Sources [326 IAC 2-1-6(b)]

- (a) This permit is approved for operation in all areas of Indiana except Lake and Porter Counties (which are severe nonattainment areas for ozone). This determination is based on the requirements Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAM and a "Relocation Site Approval" letter must be obtained before relocating.
- (b) The Permittee shall also notify the applicable local air pollution control agency when relocating to or from one of the following:
  - (1) Madison County - (Anderson Office of Air Management)
  - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
  - (3) City of Gary - (Gary Division of Air Pollution)
  - (4) City of Hammond - (Hammond Department of Environmental Management)
  - (5) Marion County - (Indianapolis Air Pollution Control Agency)
  - (6) St. Joseph County - (St. Joseph County Health Department)
  - (7) Vigo County - (Vigo County Air Pollution Department)
- (c) That a valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.
- (d) When relocating the portable plant adjacent to, or at the site of another source owned or operated by the Permittee, all requirements in 326 IAC 2-8 (FESOP Program) shall be met for both sources combined, unless the Permittee obtains from IDEM, OAM a permit that meets the requirements in 326 IAC 2-7 (Title V Program).

## Stratospheric Ozone Protection

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

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

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

## SECTION D.1 FACILITY OPERATION CONDITIONS

- (a) one (1) portable asphalt drum-mix plant, with a maximum capacity of 300 tons per hour, equipped with one (1) #2 fuel oil fired aggregate dryer burner with a maximum rated capacity of 72 million British thermal units (MMBtu) per hour, using natural gas as back-up fuel, and one (1) pulse jet baghouse for particulate control, exhausting at one (1) stack, identified as #1;
- (b) four (4) compartment cold feed bins with feeders and collection conveyors;
- (c) one (1) 30" incline conveyor with 4' x 10' scalping screen;
- (d) two (2) conveyors and one (1) screen to transfer aggregate from recycle bin to asphalt dryer; and
- (e) one (1) conveyor to transfer product from asphalt dryer to storage silo.

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

#### D.1.1 Particulate Matter (PM) Emissions [326 IAC 6-1-2] [326 IAC 6-3] [ 326 IAC 12, Subpart I]

Pursuant to 326 IAC 6-1-2(c)(1)(A) (Particulate Emission Limitations: Asphalt Concrete Plants), 326 IAC 6-3 (Process Operations), and 326 IAC 12, 40 CFR Part 60.90 through 60.93, Subpart I, the particulate matter emissions from the aggregate mixing and drying shall not exceed 7.7 pounds per hour and 0.03 grain per dry standard cubic foot (gr/dscf). This limitation on particulate matter emissions will also render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

#### D.1.2 Particulate Matter (PM-10) Emissions [326 IAC 2-8-4(1)]

Pursuant to 326 IAC 2-8-4, emissions of particulate matter with an aerodynamic diameter less than 10 microns (PM-10) from the aggregate mixing and drying operation shall not exceed 21.2 pounds per hour, including both filterable and condensable fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

#### D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1]

- (a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 72 million British thermal units per hour burner for the aggregate dryer shall be limited to 0.5 pounds per million British thermal units heat input or a sulfur content of less than or equal to 0.5 percent when using No. 2 diesel oil.
- (b) Pursuant to 326 IAC 7-1.1-2, this sulfur dioxide limit applies at all times including periods of startup, shutdown, and malfunction.

#### D.1.4 #2 Fuel Oil Usage

The input of #2 fuel oil to the 72 million British thermal units per hour burner for the aggregate dryer shall be limited as follows:

- (a) Total input shall not exceed 239,000 gallons per month, based on the sulfur content of 0.5% in the #2 fuel oil.
- (c) This fuel usage limitation will satisfy the requirements of 326 IAC 2-8-4. Therefore, the requirements of 326 IAC 2-7 do not apply. This limitation will also render the requirements of 326 IAC 2-2 and 326 IAC 2-3 not applicable.

#### D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and any control devices.

## Compliance Determination Requirements

### D.1.6 Testing Requirements [326 IAC 2-8-5(1)]

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During the period between 42 months and 48 months after issuance of this permit, the Permittee shall perform PM and PM-10 testing utilizing methods per 40 CFR Part 60 Appendix A, Method 5, 17, 40 CFR Part 51 Appendix M, Method 201, 201a, 202, as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM-10 includes filterable and condensable PM-10.

### D.1.7 Sulfur Dioxide Emissions and Sulfur Content

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Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-3-4, the Permittee shall demonstrate that the sulfur content of #2 fuel oil burned by the 72 million British thermal units per hour burner for the aggregate dryer does not exceed forty nine-one hundredths percent (0.5%) by weight by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification;
  - (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; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 72 million British thermal units per hour burner for the aggregate dryer using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-2.1.

A determination of noncompliance pursuant to either 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.1.8 Visible Emissions Notations

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- (a) Daily visible emission notations of the aggregate conveying, transfer, and storage pile activity; paved roads; and rotary dryer stack exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

#### D.1.9 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate mixing and drying, at least once daily when the hot mix asphalt plant is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

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

#### D.1.10 Broken Bag or Failure Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced.
- (b) Based upon the findings of the inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

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

#### D.1.11 Record Keeping Requirements

- (a) To document compliance with Condition D.1.8, the Permittee shall maintain records of daily visible emission notations of the aggregate conveying and handling, and rotary dryer stack exhaust.
- (b) To document compliance with Condition D.1.9, the Permittee shall maintain the following:
  - (1) Daily records of the following operational parameters during normal operation:
    - (A) Inlet and outlet differential static pressure; and
    - (B) Cleaning cycle: frequency and differential pressure.
  - (2) Documentation of all corrective actions implemented, per event .
  - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
  - (4) Quality Assurance/Quality Control (QA/QC) procedures.
  - (5) Operator standard operating procedures (SOP).
  - (6) Manufacturer's specifications or its equivalent.
  - (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Conditions D.1.3 and D.1.4, the Permittee shall maintain records in accordance with (1) through (6) below. The fuel oil sulfur limit applies at all

times including periods of startup, shutdown, and malfunction.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual usage since last compliance determination period and value calculated per limitation;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
- (4) Fuel supplier certifications.

The fuel supplier certification shall contain, as a minimum, the following:

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

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

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

#### D.1.12 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.3 and D.1.4 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.

## SECTION D.2 FACILITY OPERATION CONDITIONS

- (f) two (2) 25,000 gallon asphalt storage tanks; and
- (g) one (1) 11,000 gallon #2 fuel oil storage tank.

### Emissions Limitations and Standards [326 IAC 2-8-4(1)] [40 CFR Part 60.11b]

#### D.2.1 Volatile Organic Compounds (VOC)

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Pursuant to 40 CFR Part 60.11b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels) the two (2) 25,000 gallon and the one (1) 11,000 gallon storage tanks, storing liquid asphalt or #2 fuel oil with a vapor pressure of less than 15.0 KPa, are subject to 40 CFR Part 60.116b, paragraphs (a) and (b) which requires record keeping.

### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [40 CFR Part 60.11b]

#### D.2.2 Record Keeping Requirements

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The Permittee shall maintain records at the facility records showing:

- (a) the dimension of the storage vessel;
- (b) an analysis showing the capacity of the storage vessel; and
- (c) the true vapor pressure of the VOC stored, indicating that the maximum true vapor pressure of VOC is less than 15.0 kPa.

#### D.2.3 Reporting Requirements

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Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), the owner or operator of a stationary vessel, when the source is located in Clark or Floyd County, with a capacity of less than thirty-nine thousand (39,000) gallons, and which is not exempt, shall maintain a record and submit to the department a report containing the following information on the vessel:

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.
- (d) A description of the emission control equipment for each vessel described in 326 IAC 8-9-4(a) and 4(b), if applicable, or a schedule for installation of emission control equipment on vessels described in 326 IAC 8-9-4(a) and 4(b), if applicable, with a certification that the emission control equipment meets the applicable standards.

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

State Form 47738 (5-96)

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

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

Source Name: Dave O'Mara Contractor, Inc.  
Initial Source Address: 922 South County Road 800E, Greensburg, Indiana 47240  
Mailing Address: P. O. Box 423, North Vernon, Indiana 47265  
FESOP No.: F031-8707-05047

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

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)
- 9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

State Form 47739 (5-96)

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 DEVIATION OCCURRENCE REPORT  
 (For Control Equipment Monitoring Only)**

Source Name: Dave O'Mara Contractor, Inc.  
 Initial Source Address: 922 South County Road 800E, Greensburg, Indiana 47240  
 Mailing Address: P. O. Box 423, North Vernon, Indiana 47265  
 FESOP No.: F031-8707-05047

If a deviation has occurred, a separate copy of this report must be submitted for <b>each</b> monitoring device on all control equipment listed in this permit. Attach a signed certification to complete this report.	
Stack/Vent ID:	
Control Equipment: (ex: thermal oxidizer, scrubber, baghouses)	
Type of Parameter Monitored: (ex: temperature, pressure drop, efficiency)	
<input type="checkbox"/> Continuously	<input type="checkbox"/> Periodically, at a frequency of:
Parameter Operating Restrictions/Range: (ex: 1,400°F, 2-4 psi pressure drop)	
Report Covers From: (date: month/day/yr)	To:
<input checked="" type="checkbox"/> Summary of Deviations from the Parameter Restriction/Range During the Monitoring Period are Identified Below. Complete Records Maintained at the Facility.	

	For Parameter Recorded Continuously	For Parameter Recorded Periodically
Total Unit Operating Time		
Total Time of Deviations (Identify All Deviations)		
Percent of Time Indicating Deviations ( $\frac{2}{11} \times 100$ )		

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

State Form 47741 (5-96)

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

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

Source Name: Dave O'Mara Contractor, Inc.  
Initial Source Address: 922 South County Road 800E, Greensburg, Indiana 47240  
Mailing Address: P. O. Box 423, North Vernon, Indiana 47265  
FESOP No.: F031-8707-05047

If a deviation has occurred a separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit .  
Attach a signed certification to complete this report.

Stack/Vent ID:
Equipment/Operation:
Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit: (ex: 2500 lb/day, 300 hours/yr, 5000 gallons/month)
Determination Period for this Parameter: (ex: 365-day rolling sum, fixed monthly rate)
<input checked="" type="checkbox"/> Permit Has No Rate Limitations for this Parameter.
Content Restriction for this Parameter: (ex: maximum of 40% VOC in inks, 0.5% sulfur content)
Demonstration Method for this Parameter: (ex: MSDS, Supplier, material sampling & analysis)
<input checked="" type="checkbox"/> Permit Has No Content Limitations for this Parameter.
Comments:

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

### FESOP Quarterly Report

Source Name: Dave O'Mara Contractor, Inc.  
Initial Source Address: 922 South County Road 800E, Greensburg, Indiana 47240  
Mailing Address: P. O. Box 423, North Vernon, Indiana 47265  
FESOP No.: F031-8707-05047  
Facility: 72 million British thermal units burner for the aggregate dryer  
Parameter: sulfur dioxide (SO<sub>2</sub>)  
Limits: 0.5 pounds SO<sub>2</sub> per MMBTU heat input and fuel oil sulfur content of 0.5 (weight %)  
Usage Limits: Total input of 239,000 gallons of #2 fuel oil per month

**Year:** \_\_\_\_\_

Month	Sulfur Content of #2 Oil (weight %)	Heat Content of #2 Oil (Btu/gallon)	SO <sub>2</sub> Emissions (lb/MMBtu)	# 2 Oil Usage (gal/month)

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_

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

Signature: \_\_\_\_\_

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

## Indiana Department of Environmental Management Office of Air Management

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

#### Source Background And Description

**Source Name:** Dave O'Mara Contractor, Inc.  
**Initial Source Location:** 922 South County Road 800E, Greensburg,  
Indiana 47240  
**Initial County:** Decatur  
**SIC Code:** 2951  
**Operation Permit No.:** F031-8707-05047  
**Permit Reviewer:** Scott Pan/EVP

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Dave O'Mara Contractor, Inc., relating to the operation of a portable hot drum-mix asphalt plant:

#### Permitted Emission Units and Pollution Control Equipment

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

- (a) one (1) portable asphalt drum-mix plant, with a maximum capacity of 300 tons per hour, equipped with one (1) #2 fuel oil fired aggregate dryer burner with a maximum rated capacity of 72 million British thermal units (MMBtu) per hour, using natural gas as back-up fuel, and one (1) pulse jet baghouse for particulate control, exhausting at one (1) stack, identified as #1;
- (b) four (4) compartment cold feed bins with feeders and collection conveyors;
- (c) one (1) 30" incline conveyor with 4' x 10' scalping screen;
- (d) two (2) conveyors and one (1) screen to transfer aggregate from recycle bin to asphalt dryer;
- (e) one (1) conveyor to transfer product from asphalt dryer to storage silo;
- (f) one (1) 25,000 gallon asphalt storage tank; and
- (g) one (1) 11,000 gallon #2 fuel oil storage tank.

#### Unpermitted Emission Units and Pollution Control Equipment

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

#### Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (a) one (1) #2 fuel oil fired hot oil heater, with a rated capacity of 0.828 MMBtu/hr;
- (b) unpaved roads with public access;
- (c) one (1) recycle bin with 25 ton storage capacity;
- (d) one (1) storage silo with 70 ton storage capacity;
- (e) aggregate storage piles with a total storage capacity of 12,500 tons;

- (f) combustion source flame safety purging on startup;
- (g) a gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, having a storage capacity less than or equal to 10,500 gallons; and
- (h) a petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

### Existing Approvals

This source has been operating under the following approvals:

- (1) CP031-5341-05047, issued on August 19, 1996.

### Enforcement Issue

There are no Enforcement actions pending.

### Recommendation

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

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

An administratively complete FESOP application for the purposes of this review was received on June 18, 1997. Additional information was received on August 6, 1997.

### Emissions Calculations

See Appendix A: Emissions Calculations for detailed calculations (5 pages).

### Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	25,000.4
PM-10	5,662.6
SO <sub>2</sub>	157.2
VOC	8.6
CO	11.4
NO <sub>x</sub>	45.6

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

See attached spreadsheets for detailed calculations (page 4 in Appendix A).

HAP	PTE (tons/year)
Acetaldehyde	1.708
Acrolein	0.034
Arsenic	0.001
Benzene	0.539
Beryllium	0.001
Cadmium	0.004
Chromium	0.022
Ethylbenzene	0.499
Formaldehyde	3.154
Lead	0.003
Manganese	0.005
Methyl Ethyl Ketone	0.026
Mercury	0.001
Nickel	0.055
Quinone	0.210
Toluene	0.986
Total Polycyclic Organic Matter	0.764
Xylene	0.210
<b>TOTAL HAPs</b>	<b>8.221</b>

Note: See Appendix A, page 4 of 5 for specific HAPs included as Total Polycyclic Organic Matter (POM).

See attached spreadsheets for detailed calculations (pages 3 and 4 of Appendix A).

- (a) The potential emissions (as defined in the Indiana Rule) of PM-10 and SO<sub>2</sub> are each equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.

**Limited Potential To Emit**

- (a) The source has accepted a federally enforceable limit on potential to emit SO<sub>2</sub> of 99 tons per year, consisting of:
  - (i) 97.21 tons per year for the significant activities; and
  - (ii) 1.79 tons per year for the insignificant activities.
- (b) The source has accepted a federally enforceable limit on potential to emit PM10 of 99 tons per year (source wide PM10 potential emissions after control are 11.87 tons per year), consisting of:
  - (i) 5.65 tons per year for the significant activities; and
  - (ii) 6.22 tons per year for the insignificant activities.
- (c) The table below summarizes the total limited potential to emit of the significant and

insignificant emission units.

Process/ facility	Limited PTE (tons/year)						
	PM	PM-10	SO2	VOC	CO	NOx	HAPs
aggregate drying	24.97	5.65	97.21	8.41	11.04	44.15	8.13
combustion**	0.05	0.03	1.79	0.01	0.13	0.52	0.00
conveying/handling**	1.43	0.68	0.00	0.00	0.00	0.00	0.00
unpaved roads**	15.67	5.49	0.00	0.00	0.00	0.00	0.00
storage**	0.06	0.02	0.00	0.00	0.00	0.00	0.00
<b>Total Emissions</b>	<b>42.18</b>	<b>11.87</b>	<b>99.00</b>	<b>8.42</b>	<b>11.17</b>	<b>44.67</b>	<b>8.13</b>

\*\* These are insignificant activities.

Attached Table A summarizes the permit conditions and requirements.

**Portable Source**

- (a) Initial Location  
 This is a portable source, and its initial location will be at 922 South County Road 800E, Greensburg, Indiana 47240.
- (b) PSD and Emission Offset Requirements  
 The emissions from this portable source were reviewed both under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.
- (c) Fugitive Emissions  
 Since this type of operation has applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate emissions are counted toward determination of PSD and Emission Offset applicability.

**Federal Rule Applicability**

- (a) The hot mix asphalt source is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90 through 60.93, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities". This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. The portable drum mix plant will be in compliance with the requirements of Subpart I by controlling particulate matter emissions with a baghouse.

- (b) Both the 25,000 gallon asphalt storage tank and the 11,000 gallon #2 fuel oil storage tank are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.11b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" since each was constructed after July 23, 1984 and each has a storage capacity of greater than 40 cubic meters. However, both tanks store materials with a vapor pressure of less than 15.0 kPa and are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b) which requires recordkeeping.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

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

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

Pursuant to 326 IAC 2-6 (Emission Reporting), any source with a potential to emit of any regulated pollutant equal to or greater than one hundred (100) tons per year, or any source located in the counties listed in 326 IAC 2-6-1(a) with a potential to emit of VOC or NO<sub>x</sub> equal to or greater than ten (10) tons per year must annually submit an emission statement of the source. The portable source will limit its potential emissions of all regulated air pollutants to less than 100 tons per year. However, this portable source still has the potential to emit of NO<sub>x</sub> into the air at levels greater than ten (10) tons per year. Therefore, the portable source is subject to this rule when it is located in one of the counties listed in 326 IAC 2-6-1(a). The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4. A copy of the applicable rule will be enclosed with the permit.

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

Pursuant to this rule, the input of #2 diesel oil, based on a maximum sulfur content of 0.5% (by weight) in the oil, to the 72 million British thermal units per hour dryer burner shall be limited to 239,000 gallons per month. This fuel input limitation is equivalent to limiting source wide SO<sub>2</sub> emissions to 99 tons per year. Also, PM-10 emissions from the aggregate mixing and drying are limited at 21.2 pounds per hour. The source will comply with the PM-10 emission limit by utilizing a baghouse for controlling PM-10 emissions from the aggregate dryer to 1.3 pounds per hour. (see page 5 of Appendix A). Compliance with these limitations will make the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable to this source.

#### **326 IAC 5-1 (Visible Emissions Limitations)**

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

- (a) Visible emissions shall not exceed an average of forty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

This portable source will not locate in the severe nonattainment areas, specifically Lake and Porter Counties.

### **State Rule Applicability - Individual Facilities**

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

This 300 ton per hour portable hot mix asphalt plant is subject to 326 IAC 6-1-2(a). Pursuant to this rule, the particulate matter (PM) emissions from the hot mix asphalt plant shall be limited to 0.03 grain per dry standard cubic foot (equivalent to 7.7 pounds per hour and 33.7 tons per year, see page 5 of Appendix A). The aggregate drying/mixing operation at the source, will comply with this requirement by utilizing a baghouse for controlling PM emissions at all times of drying/mixing operation.

326 IAC 6-3 (Process Operations)

The 300 ton per hour portable hot mix asphalt plant is subject to 326 IAC 6-3-2 (Particulate Emission Limitations). Pursuant to this rule, PM emissions from aggregate drying/mixing operation shall not exceed 63.0 pounds per hour (equivalent to 275.9 tons per year). However, this rate would exceed the 326 IAC 2-2 (PSD) allowable rate of 249 tons per year, the 326 IAC 2-3 (Emission Offset) allowable rate of 99 tons per year, and the 326 IAC 6-1-2 allowable rate of 33.7 tons per year. Therefore, pursuant to 326 IAC 2-2, 326 IAC 2-3 and 326 IAC 6-1-2, the allowable PM emission rate for the process operations is truncated to 33.7 tons per year or 7.7 pounds per hour. The source will comply with the requirements by utilizing a baghouse at all times of hot mix asphalt plant operations.

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 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, a fugitive dust control plan must be submitted, reviewed and approved. The fugitive dust control plan submitted on June 18, 1997 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.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

This rule requires all facilities with a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide (SO<sub>2</sub>) to comply with the emission limitations and test compliance methods stated in the rule. The SO<sub>2</sub> emissions from the #2 diesel fuel fired 72 million Btu/hr dryer burner shall be limited to 0.5 pounds per million Btu heat input. This equates to a #2 fuel oil sulfur content limit of 0.5%. Therefore, the sulfur content of the diesel fuel must be less than or equal to 0.5% in order to comply with this rule. The source will comply with this rule by using #2 fuel oil with a sulfur content of 0.5% or less (see page of Appendix A for detailed calculations).

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

This source is subject to 326 IAC 7-2-1 (Reporting Requirements). This rule requires the source to submit to the Office of Air Management upon request records of sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates for the combustion unit on a calendar-month average. The source will comply with this reporting requirement.

326 IAC 8-1-6 (Volatile Organic Compound General Reduction Requirements)

This rule is not applicable to this source since no facility has a potential VOC emissions of 25 tons per year or more.

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

The source is not subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), because the source does not plan to use cutback asphalt or asphalt emulsion. Cutback asphalt or asphalt emulsion shall not be used unless the source complies with the requirements of 326 IAC 8-5-2.

**326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)**

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of the rule. Stationary vessels with capacities equal to or greater than 39,000 gallons storing a VOL with a maximum true vapor pressure equal to or greater than 0.5 pounds per square inch absolute (psia), but less than 0.75 psia, are only subject to 326 IAC 8-9-6(a),(b),(g), and (h). The two (2) storage tanks at this source are only subject to the reporting and record keeping requirements of this rule.

No other rules pursuant to 326 IAC 8 apply to this source.

## **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, OAM, 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 permit Section D 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 permit Section D. 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:

1. The combustion of #2 fuel oil in the aggregate dryer burner has applicable compliance monitoring conditions as specified below:
  - a) The consumption of #2 fuel oil burned, based on a maximum sulfur content of 0.5% in the oil, must be limited to 239,000 gallons per month to ensure compliance with 326 IAC 2-8 (FESOP).
  - b) Quarterly reports shall be submitted to OAM Compliance Section. These reports shall include the #2 fuel oil usage each month, and the sulfur content and heat content of the fuel oil.

These monitoring conditions are necessary because sulfur dioxide (SO<sub>2</sub>) emissions from the combustion of #2 fuel oil must be limited such that source wide (SO<sub>2</sub>) emissions are below the Title V major source level of 100 tons per year, the sulfur content of the fuel must comply with 326 IAC 7-1.1, and the source complies with the FESOP limits established in 326 IAC 2-8.

2. The aggregate mixing and drying, conveying, screening, and transfer operations, and the unpaved road operations, have applicable compliance monitoring conditions as specified below:
  - a) Test for particulate matter emissions from the baghouse exhaust stack (#1). Testing shall be performed in accordance to 326 IAC 3-2.1 using methods acceptable to the Commissioner. The stack test shall be performed during the period between 42 months and 48 months after issuance of the FESOP.
  - b) The total static pressure drop across the baghouse must be measured and recorded daily when the drying and mixing processes are in operation. The pressure drop for the system shall be maintained within the range of 2.0 and 6.0 inches of water. If the pressure drop is outside the range, corrective action shall be taken in accordance with the Preventive Maintenance Plan.
  - c) Daily visible emissions observations of the aggregate conveying, transfer, and screening activities; unpaved roads; and baghouse exhaust stack (#1) shall be performed by a trained employee. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed and, if a reading is abnormal, corrective action shall be taken in accordance with the Plan.

These monitoring conditions are necessary because the aggregate drying and mixing process must operate properly to ensure compliance with 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emissions Offset), 326 IAC 6-1-2 (Particulate Emission Limitations), 326 IAC 6-3 (Process Operations), and 326 IAC 2-8 (FESOP). Additionally, fugitive dust emissions must comply with 326 IAC 6-4 and 326 IAC 6-5.

### **Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

- (a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to Clean Air Act.

- (b) See attached calculations for detailed air toxic calculations (pages 3 and 4 of Appendix A).

### **Conclusion**

The operation of this portable hot mix asphalt plant will be subject to the conditions of the attached proposed **FESOP No. F031-8707-05047**.

Table A

<b>Stack/Vent ID: #1</b>			
<b>Stack/Vent Dimensions:</b> Ht: 20' Dia: 3.4' x 2.3' temp: 280EF Flow: 44,979 acfm			
<b>Emission Unit: Asphalt Mixer and Dryer</b>			
<b>Date of Construction: June, 1996</b>			
<b>Alternative Scenario: Use Natural Gas as Alternative Fuel</b>			
<b>Pollution Control Equipment: Baghouse</b>			
<b>General Description of Requirement:</b>	limit total #2 fuel usage to dryer burner	sulfur content of fuel oil burned	record static pressure drop and visibility observations
<b>Numerical Emission Limit:</b>	usage of #2 fuel oil to 239,000 gallons per month	0.5% sulfur or less for diesel oil	PM and PM10 emissions limit to 33.7 and 99 tons per year, respectively
<b>Regulation/Citation:</b>	326 IAC 2-8-4	326 IAC 7-1.1	326 IAC 6-1-2, 326 IAC 6-3-2 & 326 IAC 2-8-4
<b>Compliance Demonstration:</b>	record keeping and reporting	testing and reporting	monitoring
<b>PERFORMANCE TESTING</b>			
<b>Parameter/Pollutant to be Tested:</b>	N/A	sulfur content	PM and PM10
<b>Testing Method/Analysis:</b>		40 CFR Part 60, Appendix A, Method 19	method accepted by the commissioner
<b>Testing Frequency/Schedule:</b>		each fuel delivery	36 to 42 months after FESOP issuance, then once every 5 years
<b>Submittal of Test Results:</b>		quarterly	45 days after testing
<b>COMPLIANCE MONITORING</b>			
<b>Monitoring Description:</b>	record diesel fuel usage	N/A	maintain pressure drop within 2"-6" water and visibility observations
<b>Monitoring Method:</b>	purchase orders/invoices	N/A	gauge/meter; trained employee
<b>Monitoring Regulation/Citation:</b>	326 IAC 2-8-4	N/A	326 IAC 6-1-2, 326 IAC 6-3-2 & 326 IAC 2-8-4
<b>Monitoring Frequency:</b>	monthly	N/A	daily
<b>RECORD KEEPING</b>			
<b>Parameter/Pollutant to be Recorded:</b>	#2 fuel oil burned	fuel sulfur content	pressure drop & visible emissions
<b>Recording Frequency:</b>	monthly	each fuel delivery	daily
<b>Submittal Schedule of Reports:</b>	quarterly	quarterly	upon OAM request
<b>REPORTING REQUIREMENTS</b>			
<b>Information in Report:</b>	fuel usage	sulfur content of #2 fuel oil burned	N/A
<b>Reporting Frequency/Submittal:</b>	quarterly	quarterly	N/A
<b>Additional Comments:</b>	none	none	(1)

(1) If pressure drop falls outside range, or visible emissions observed, maintenance procedures will be initiated.

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

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

**Source Name:** Dave O'Mara Contractor, Inc.  
**Initial Source Location:** 922 South County Road 800E, Greensburg, Indiana  
 47240  
**SIC Code:** 2951  
**County:** Allen  
**Operation Permit No.:** F031-8707-05047  
**Permit Reviewer:** Scott Pan/EDP

On September 10, 1997, the Office of Air Management (OAM) had a notice published in the Greensburg Daily News, Greensburg, Indiana, stating that Dave O'Mara Contractor, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a portable hot drum-mix asphalt plant. The notice also stated that OAM proposed to issue a FESOP for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

Upon further review, the OAM has decided to make the following changes to the Technical Support Document (TSD):

Paragraph (a) in the section discussing the 326 IAC 5-1 (Visible Emissions Limitations) rule (page 5 of 10) mistakenly states that "Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings". The opacity limit should be thirty percent (30%) for a portable source and the paragraph (a) has been revised to reflect the correct opacity limit, as follows:

- (a) Visible emissions shall not exceed an average of thirty percent (30%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,

On September 25, 1997, Dave O'Mara Contractor, Inc. submitted comments on the proposed FESOP. The summary of the comments and corresponding responses is as follows:

**Comment #1:**

The following changes are needed for the proposed FESOP:

- (1) There are two (2) 25,000 gallon asphalt storage tanks at the source not one (1) 25,000 gallon asphalt storage tank as indicated in item (f) of Section A.2 (page 5 of 34). Item (f) should be changed to:
- (f) two (2) 25,000 gallon asphalt storage tanks.
- (2) Item (g) in Section A.3 (page 5 of 34) is no longer existing and should be deleted.

**Response #2:**

Since the requested changes will not affect any calculated emissions or conditions in the proposed permit, Sections A.2 (also the facility list of Section D.2 in page 30 of 34) and A.3 have been revised accordingly, and item (h) in Section A.3 now becomes item (g).

**Company Name :** Dave O'Mara Contractor, Inc.  
**Initial Plant Location :** 922 South County Road 800E, Greensburg, IN 47240  
**Initial County :** Decatur  
**Date :** August 4, 1997  
**Permit Reviewer :** Scott Pan

**\*\* hot oil heater \*\***

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.486 % sulfur, from hot oil heater, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-2, 1.3-4, and 1.3-8.

Pollutant:	$\frac{0.828 \text{ MMBtu/hr} * 8760 \text{ hr/yr}}{140,000 \text{ Btu/gal} * 2000 \text{ lb/ton}}$	* Ef (lb/1000 gal) = (ton/yr)	
P M:	2.00 lb/1000 gal =	0.05	ton/yr
P M-10:	1.08 lb/1000 gal =	0.03	ton/yr
S O 2:	69.01 lb/1000 gal =	1.79	ton/yr
N O x:	20.00 lb/1000 gal =	0.52	ton/yr
V O C:	0.34 lb/1000 gal =	0.01	ton/yr
C O:	5.00 lb/1000 gal =	0.13	ton/yr

**\*\* drum-mix aggregate dryer burner\*\***

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.486 % sulfur, from the drum-mix aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-2, 1.3-4, and 1.3-7.

Criteria Pollutant:	$\frac{72 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} * 2,000 \text{ lb/ton}}$	* Ef * Ef (lb/1000 gal) = (ton/yr)
P M:	2.0 lb/1000 gal =	<b>4.51 ton/yr</b>
P M-10:	1.0 lb/1000 gal =	<b>2.25 ton/yr</b>
S O 2:	69.0 lb/1000 gal =	<b>155.45 ton/yr</b>
N O x:	20.0 lb/1000 gal =	<b>45.05 ton/yr</b>
V O C:	0.20 lb/1000 gal =	<b>0.45 ton/yr</b>
C O:	5.0 lb/1000 gal =	<b>11.26 ton/yr</b>

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

Criteria Pollutant:	$\frac{72 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1000 \text{ Btu/cf} * 2,000 \text{ lb/ton}}$	* Ef (lb/MMcf) = (ton/yr)
P M:	14.0 lb/MMcf =	<b>4.42 ton/yr</b>
P M-10:	14.0 lb/MMcf =	<b>4.42 ton/yr</b>
S O 2:	0.6 lb/MMcf =	<b>0.19 ton/yr</b>
N O x:	140.0 lb/MMcf =	<b>44.15 ton/yr</b>
V O C:	2.8 lb/MMcf =	<b>0.88 ton/yr</b>
C O:	35.0 lb/MMcf =	<b>11.04 ton/yr</b>

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

Criteria Pollutant:		Worst Case Fuel
P M:	<b>4.51 ton/yr</b>	No. 2 Fuel Oil
P M-10:	<b>4.42 ton/yr</b>	Natural Gas
S O 2:	<b>155.45 ton/yr</b>	No. 2 Fuel Oil
N O x:	<b>45.05 ton/yr</b>	No. 2 Fuel Oil
V O C:	<b>0.88 ton/yr</b>	Natural Gas
C O:	<b>11.26 ton/yr</b>	No. 2 Fuel Oil

**\*\* 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, Tables 11.1-5 and 11.1-10 for a drum mix dryer which has the capability of combusting either fuel oil or natural gas:

<b>PM:</b>	19 lb/ton x	300 ton/hr x	8760 hr/yr =	24966 ton/yr
		2000 lb/ton		
<b>PM-10:</b>	4.3 lb/ton x	300 ton/hr x	8760 hr/yr =	5650 ton/yr
		2000 lb/ton		

**\*\* conveying / handling \*\***

The following calculations determine the amount of emissions created by wet (>1.5% moisture) material conveying & handling, based on 8,760 hours of use and AP-42, Ch 11.19.2. Emission factors for different operations are as follows:

PM 10 Emissions Per Operation:

$$\frac{300 \text{ ton/hr} \times 8760 \text{ hr}}{2000 \text{ lb/ton}} \times \text{Ef (lb/ton)} = (\text{ton/yr})$$

Operation				
Loading:	1 operation(s) x	1.0E-04 lb/ton/operation(s) =		0.13 ton/yr
Conveyor Transfers:	2 operation(s) x	4.8E-05 lb/ton/operation(s) =		0.13 ton/yr
Screening:	1 operation(s) x	8.4E-04 lb/ton of material =		1.10 ton/yr
<b>Total PM 10 Emissions:</b>				<b>1.36 ton/yr</b>

\* PM emission factors are estimated by multiplying 2.1 to PM10 emission factors.

**Total PM Emissions: 2.86 ton/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 USEPA's AP-42, 5th Edition, Section 13.2.2.2.

I. Loaders

$$40 \text{ trip/hr} \times 0.03125 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8760 \text{ hr/yr} = 21900 \text{ miles per year}$$

$$\text{Ef} = k \times 5.9 \times (s/12) \times (S/30) \times (W/3)^{0.7} \times (w/4)^{0.5} \times ((365-p)/365)$$

$$= 1.25 \text{ lb/mile}$$

where k = 0.8 (particle size multiplier)

s = 4.8 % silt content of unpaved roads

p = 125 days of rain greater than or equal to 0.01 inches

S = 10 speed in miles/hr

W = 15 tons avg. weight

w = 4 wheels

$$\text{PM: } \frac{1.25 \text{ lb/mi} \times 21900 \text{ mi/yr}}{2000 \text{ lb/ton}} = 13.65 \text{ tons/yr}$$

$$\text{PM-10: } 35\% \text{ of PM} = 4.78 \text{ ton/yr}$$

II. Trucks

$$10 \text{ trip/hr} \times 0.0625 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8760 \text{ hr/yr} = 10950 \text{ miles per year}$$

$$\text{Ef} = k \times 5.9 \times (s/12) \times (S/30) \times (W/3)^{0.7} \times (w/4)^{0.5} \times ((365-p)/365)$$

$$= 3.23 \text{ lb/mile}$$

where k = 0.8 (particle size multiplier)

s = 4.8 % silt content of unpaved roads

p = 125 days of rain greater than or equal to 0.01 inches

S = 10 speed in miles/hr

W = 23 tons avg. weight

w = 14 wheels

$$\text{PM: } \frac{3.23 \text{ lb/mi} \times 10950 \text{ mi/yr}}{2000 \text{ lb/ton}} = 17.69 \text{ tons/yr}$$

$$\text{PM-10: } 35\% \text{ of PM} = 6.19 \text{ ton/yr}$$

**\*\* storage \*\***

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

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

= 2.89 lb/acre/day  
 where s = 2.5 % silt  
 p = 125 days of rain greater than or equal to 0.01 inches  
 f = 15 % of wind greater than or equal to 12 mph

$$E_p (\text{storage}) = \frac{E_f \cdot sc \cdot (20 \text{ cuft/ton}) \cdot (365 \text{ day/yr})}{(2000 \text{ lb/ton}) \cdot (43560 \text{ sqft/acre}) \cdot (25 \text{ ft})}$$

**PM = 0.12 tons/yr**  
 where sc = 12,500 tons storage capacity

**P M-10: 35% of PM = 0.04 tons/yr**

**\*\* PM & PM-10 emissions after controls \*\***

hot oil heater			
P M:	0.05 ton/yr x	100%	emitted after controls = 0.05 ton/yr
P M-10:	0.03 ton/yr x	100%	emitted after controls = 0.03 ton/yr
aggregate mixing and drying:			
P M:	24966.00 ton/yr x	0.10%	emitted after controls = 24.97 ton/yr
P M-10:	5650.2 ton/yr x	0.10%	emitted after controls = 5.65 ton/yr
conveying/handling:			
P M:	2.86 ton/yr x	50%	emitted after controls = 1.43 ton/yr
P M-10:	1.36 ton/yr x	50%	emitted after controls = 0.68 ton/yr
unpaved roads:			
P M:	31.34 ton/yr x	50%	emitted after controls = 15.67 ton/yr
P M-10:	10.97 ton/yr x	50%	emitted after controls = 5.49 ton/yr
storage:			
P M:	0.12 ton/yr x	50%	emitted after controls = 0.06 ton/yr
P M-10:	0.04 ton/yr x	50%	emitted after controls = 0.02 ton/yr

**Hazardous Air Pollutants (HAP's)**

**\*\* asphalt heating combustion\*\***

The following calculations determine the amount of HAP emissions created by the combustion of #2 & #4 distillate fuel oils, from asphalt heating, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-11

Hazardous Air Pollutants (HAPs):  $\frac{72.828 \text{ MMBtu/hr} \cdot 8760 \text{ hr/yr}}{2000 \text{ lb/ton}}$  \*  $E_f (\text{lb}/10^{12} \text{ Btu}) = (\text{ton/yr})$

		Potential to Emit	Limited Emissions
<b>Arsenic</b>	4.2 lb/10 <sup>12</sup> Btu =	<b>1.34E-03 ton/yr</b>	<b>8.38E-04 ton/yr</b>
<b>Beryllium:</b>	2.5 lb/10 <sup>12</sup> Btu =	<b>7.97E-04 ton/yr</b>	<b>4.99E-04 ton/yr</b>
<b>Cadmium:</b>	11 lb/10 <sup>12</sup> Btu =	<b>3.51E-03 ton/yr</b>	<b>2.19E-03 ton/yr</b>
<b>Chromium:</b>	67 lb/10 <sup>12</sup> Btu =	<b>2.14E-02 ton/yr</b>	<b>1.34E-02 ton/yr</b>
<b>Lead:</b>	8.9 lb/10 <sup>12</sup> Btu =	<b>2.84E-03 ton/yr</b>	<b>1.78E-03 ton/yr</b>
<b>Manganese:</b>	14 lb/10 <sup>12</sup> Btu =	<b>4.47E-03 ton/yr</b>	<b>2.79E-03 ton/yr</b>
<b>Mercury:</b>	3 lb/10 <sup>12</sup> Btu =	<b>9.57E-04 ton/yr</b>	<b>5.98E-04 ton/yr</b>
<b>Nickel:</b>	170 lb/10 <sup>12</sup> Btu =	<b>5.42E-02 ton/yr</b>	<b>3.39E-02 ton/yr</b>
	Total HAPs =	<b>8.95E-02 ton/yr</b>	<b>5.60E-02 ton/yr</b>

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

The following calculations determine the amount of HAP 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 11.1-10 for a drum mix Oil-fired dryer:

$$\text{Pollutant: } \frac{\text{Ef lb/ton} \times 300 \text{ ton/hr} \times 8760 \text{ hr/yr}}{2000 \text{ lb/ton}}$$

Hazardous Air Pollutants (HAPs):

<b>Acetaldehyde:</b>	0.0013	lb/ton =	<b>1.708 ton/yr</b>
<b>Acrolein:</b>	0.000026	lb/ton =	<b>0.034 ton/yr</b>
<b>Benzene:</b>	0.00041	lb/ton =	<b>0.539 ton/yr</b>
<b>Ethylbenzene:</b>	0.00038	lb/ton =	<b>0.499 ton/yr</b>
<b>Formaldehyde:</b>	0.0024	lb/ton =	<b>3.154 ton/yr</b>
<b>Methyl Ethyl Ketone:</b>	0.00002	lb/ton =	<b>0.026 ton/yr</b>
<b>Quinone:</b>	0.00016	lb/ton =	<b>0.210 ton/yr</b>
<b>Toluene:</b>	0.00075	lb/ton =	<b>0.986 ton/yr</b>
<b>**Total Polycyclic Organic Matter (POM):</b>	0.0005816	lb/ton =	<b>0.764 ton/yr</b>
<b>Xylene:</b>	0.00016	lb/ton =	<b>0.210 ton/yr</b>
<b>Total HAPs =</b>			<b>8.131 ton/yr</b>

\*\* total POM includes 2-Methylnapthalene, Acenanapthalene, Anthracene, Fluorene, Napthalene, Phenanthrene, and Pyrene.

**\*\* source emissions summary \*\***

Pollutant	Uncontrolled Emissions (tons/yr)	Controlled/Limited Emissions (tons/yr)
PM	25000.4	42.2
PM10	5662.6	11.9
SO2 (1)	157.2	99.0
NOx	45.6	44.7
VOC (2)	8.6	8.4
CO	11.4	11.2
HAPs	8.2	8.1

(1) Limited SO2 emissions include 1.79 tons/yr from hot oil heater and 97.21 tons/yr from asphalt heating. The equivalent maximum annual #2 oil usage is calculated as follows:

$$\frac{0.828 \text{ mmBtu/hr} \times 8760 \text{ hr/yr}}{0.14 \text{ mmBtu/gal}} + \frac{97.21 \text{ tons/yr} \times 8760 \text{ hr/yr} \times 72 \text{ mmBtu/hr}}{155.45 \text{ tons/yr} \times 0.14 \text{ mmBtu/gal}} = 2.87\text{E}+06 \text{ gal/yr}$$

$$= 2.87\text{E}+6 \text{ gal/yr} \times (1/12) \text{ yr/mon} = 2.39\text{E}+5 \text{ gal/mon}$$

(2) VOC emissions includes HAPs emissions from asphalt drum mixer

**\*\* miscellaneous \*\***

**Compliance with 326 IAC 2-8-4 for PM-10**

Pursuant to 326 IAC 2-8-4, PM-10 emissions from the asphalt mixing/drying are limited at 99 - 6.22 tons/yr from other sources. Therefore, PM-10 emissions from the asphalt mixing/drying are limited at 92.78 ton/yr or 21.2 lb/hr.

PM-10 emissions from the aggregate mixing/drying are controlled at 5.65 ton/yr or 1.27 lb/hr. **(will comply)**

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

The following calculations determine compliance with 326 IAC 6-1-2 (0.03 gr/dscf) and NSPS (0.04 gr/dscf), which limits PM emissions from asphalt plants to 0.03 gr/dscf:

$$\frac{24.97 \text{ ton/yr} * 2000 \text{ lb/ton} * 7000 \text{ gr/lb}}{525,600 \text{ min/yr} * 29,905 \text{ cu ft/min}} = 0.022 \text{ gr/cu ft} \quad \textbf{(will comply)}$$

Allowable particulate emissions under 326 IAC 6-1-2 (0.03 gr/dscf) equate to 33.68 tons per year.

**Compliance with 326 IAC 6-3-2**

Pursuant to 326 IAC 6-3-2, emissions limit for processing 300 tons/hr hot mixed asphalt is calculated as:

$$E = 55.0 * P^{0.11} - 40$$

where: E is the emission limit in lb/hr; P is the material process rate in tons/hr

Therefore, allowable emission rate = 55.0 \* (300)<sup>0.11</sup> - 40 = 63.0 lb/hr. This rate exceeds 326 IAC 6-1-2 allowable 33.68 tons/yr. Therefore, the allowable emission rate is calculated to be: 33.7 \* 2000 lb/ton / 8760 (hr/yr) = 7.7 lb/hr.

The maximum controlled emission rate from asphalt mixing and drying is 25.0 tons/yr or 25.0 (tons/yr) \* 2000 (lb/ton) / 8760 (hr/yr) = 5.7 lb/hr **(will comply)**

**Compliance with 326 IAC 7-1.1-2**

The following calculations determine the maximum sulfur content of #2 fuel oil allowable by 326-IAC 7-1.1-2:

$$\frac{0.5 \text{ lb/MMBtu} * 140,000 \text{ Btu/gal}}{70 \text{ lb/1000 gal} * 142} = \frac{70}{0.493} \text{ lb/1000 gal}$$

Sulfur content must be less than or equal to 0.493 % to comply with 326 IAC 7-1.1-2.

Facility will comply with the rule by using fuel oil with 0.486% sulfur content.