



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
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TO: Interested Parties / Applicant
DATE: April 5, 2006
RE: Ranger Materials Corporation / 169-20336-00061
FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 03/23/06



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

**Ranger Materials Corporation
State Road 114
Disko, Indiana 46982**

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

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

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

Operation Permit No.: F169-20336-00061	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: April 5, 2006 Expiration Date: April 5, 2011

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary batch mix asphalt plant.

Authorized individual:	Jay Riley, Production Manager
Source Address:	State Road 114, Disko, Indiana 46982
Mailing Address:	P.O. Box 284, Warsaw, Indiana 46580
General Source Phone:	(574) 267-2422
SIC Code:	2951
Source Location Status:	Wabash
Source Status:	Attainment for all criteria pollutants Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) hot mix asphalt batch plant, identified as unit S-1, with a maximum capacity of processing 160 tons of aggregates per hour, equipped with one (1) No. 2 distillate fuel oil-fired aggregate dryer burner with a maximum rated capacity of 105 mmBtu/hr, using one (1) cyclone and one (1) baghouse in series for control, and exhausting to stack EU-01;
- (b) One (1) asphalt cement storage tank, with a maximum nominal capacity of 20,000 gallons (19,974 gallons), identified as Tank T1;
- (c) One (1) No. 2 fuel oil storage tank, with a maximum nominal capacity of 14,100 gallons (14,099 gallons), identified as Tank T2; and
- (d) Cutback (stockpile mix) asphalt storage piles.

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

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

- (a) Fuel oil-fired combustion sources with heat input equal to or less than two (2) mmBtu/hr and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight;
- (b) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;
- (c) Paved and unpaved roads and parking lots with public access;
- (d) Other categories with emissions below insignificant thresholds:
 - (1) Truck loading,

- (2) Conveyor transfers and batch drops,
- (3) Aggregate storage.

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

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

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

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1 when furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality

100 North Senate Avenue
Indianapolis, Indiana 46204

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Request for renewal shall be submitted to:

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

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

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

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

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

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

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

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

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

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

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

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

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

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

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

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

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

and

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

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

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

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

- (b) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC13-30-3-1]

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

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

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

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

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

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

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

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

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

B.23 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAP from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month 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(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

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

C.3 Opacity [326 IAC 5-1]

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

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

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

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

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

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on April 25, 2000. The plan does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). The plan consists of:

- (a) Limit vehicle traffic speed on plant roadways to 10 miles per hour; and
- (b) Wind erosion of aggregate storage piles shall be controlled using water spray.

C.8 Stack Height [326 IAC 1-7]

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

C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

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

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

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

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

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

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

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

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

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

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

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

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

- (2) Review of operation and maintenance procedures and records;
- (3) Inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) Monitoring data;
 - (2) Monitor performance data, if applicable; and
 - (3) Corrective actions taken.

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

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

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

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

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

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

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period.

The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

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

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

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

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

One (1) hot mix asphalt batch plant, identified as unit S-1, with a maximum capacity of processing 160 tons of aggregates per hour, equipped with one (1) No. 2 distillate fuel oil-fired aggregate dryer burner with a maximum rated capacity of 105 mmBtu/hr, using one (1) cyclone and one (1) baghouse in series for control, and exhausting to stack EU-0.

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

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

D.1.1 Particulate Matter (PM) [326 IAC 2-2]

Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), the particulate matter emissions from the mixing and drying operation shall be limited to 56.12 pounds per hour, which is equivalent to 245.8 tons per year. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) will not apply.

D.1.2 PM₁₀ Emissions [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to F169-12210-00061, issued on August 4, 2000, and 326 IAC 2-8-4, the combined PM₁₀ emissions from the aggregate mixing and drying operation shall not exceed 20.92 pounds per hour, including both filterable and condensable fractions. Compliance with this limit satisfies 326 IAC 2-8-4. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 will not apply.

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

Pursuant to F169-12210-00061, issued on August 4, 2000 and 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 105.0 mmBtu/hr burner for the aggregate dryer shall be limited to 0.5 pounds per mmBtu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.

D.1.4 Fuel Usage [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to F169-12210-00061, issued on August 4, 2000 and 326 IAC 2-8-4(1), the input of No. 2 fuel oil with a maximum sulfur content of 0.5% to the 105.0 mmBtu/hr burner for the aggregate dryer shall be limited to 2,545,223 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited below 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 will not apply.

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

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

Compliance Determination Requirements

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

In order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM₁₀ testing for this facility utilizing methods as approved by the Commissioner. This test shall be performed on or before July 24, 2008, and shall be repeated at least once every five (5) years. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be conducted in accordance with Section C – Performance Testing.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the No. 2 distillate fuel oil sulfur content does not exceed 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 9.
 - (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 105.0 mmBtu/hr burner for the aggregate dryer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

D.1.8 Particulate Control [326 IAC 2-7-6(6)]

- (a) Pursuant to F169-12210-00061, issued on August 4, 2000, and in order to comply with Conditions D.1.1 and D.1.2, the cyclone and baghouse for particulate control shall be in operation at all times when the aggregate dryer is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.9 Visible Emissions Notations

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

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.10 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer, at least once daily when the aggregate dryer is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 5.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The instrument used for determining the pressure shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.11 Broken or Failed Bag Detection

In the event that bag failure has been observed:

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

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

D.1.12 Cyclone Failure Detection

In the event that cyclone failure has been observed:

The failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B – Emergency Provisions).

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

D.1.13 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.3 and D.1.4, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limits established in Conditions D.1.3 and D.1.4.

- (1) Calendar dates covered in the compliance determination period;
- (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (4) Fuel supplier certifications;
 - (5) The name of the fuel supplier; and
 - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Condition D.1.9, the Permittee shall maintain records of visible emission notations of the aggregate dryer baghouse stack exhaust once per day.
 - (c) To document compliance with Condition D.1.10, the Permittee shall maintain records once per day of the pressure drop during normal operation when venting to the atmosphere.
 - (d) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition 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. The report submitted by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

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

D.1.15 General Provisions Relating to New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities [326 IAC 12-1] [40 CFR 60, Subpart A] [40 CFR 60, Subpart I]

The provisions of 40 CFR 60, Subpart A – General Provisions, that are incorporated by reference in 326 IAC 12-1, apply to this source, except when otherwise specified in 40 CFR 60, Subpart I.

D.1.16 New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities [40 CFR 60, Subpart I]

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

§ 60.90 Applicability and designation of affected facility.

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

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

§ 60.91 Definitions.

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

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

§ 60.92 Standard for particulate matter.

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

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

§ 60.93 Test methods and procedures.

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

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

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

SECTION D.2 FACILITY OPERATION CONDITIONS

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

Cutback (stockpile mix) asphalt storage piles.

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

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

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to F169-12210-00061, issued on August 4, 2000, and 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the use of cutback asphalt or asphalt emulsion shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

- (1) Penetrating prime coating.
- (2) Stockpile storage.
- (3) Application during the months of November, December, January, February, and March.

D.2.2 Cold-Mix (Stockpile Mix) VOC Usage [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to F169-12210-00061, issued on August 4, 2000, the VOC usage in the production of cutback (stockpile mix) asphalt shall be limited to 93.4 tons per consecutive twelve (12) month period. This is equivalent to 133.4 tons of diluent used per consecutive twelve (12) month period in the production of cutback (stockpile mix) asphalt based on 70% volatilization. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 will not apply.

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

D.2.3 Record Keeping Requirements

- (a) To document compliance with Conditions D.2.1 and D.2.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.2.1 and D.2.2.
 - (1) Diluent used in production of cutback asphalt per month;
 - (2) Amount of diluent used in the past 12 months;
 - (3) Type of liquid binder used; and
 - (4) Percent diluent (oil distillate) in liquid binder.
- (b) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

D.2.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 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.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Ranger Materials Corporation
Source Address: SR 114, Disko, Indiana 46982
Mailing Address: P.O. Box 284, Warsaw, Indiana 46580
FESOP No.: F169-20336-00061

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-5674
Fax: 317-233-5967**

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

Source Name: Ranger Materials Corporation
Source Address: SR 114, Disko, Indiana 46982
Mailing Address: P.O. Box 284, Warsaw, Indiana 46580
FESOP No.: F169-20336-00061

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

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

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

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Ranger Materials Corporation
Source Address: SR 114, Disko, Indiana 46982
Mailing Address: P.O. Box 284, Warsaw, Indiana 46580
FESOP No.: F169-20336-00061
Facility: Batch mix dryer
Parameter: Input of No. 2 Fuel Oil
Limit: The input of No. 2 fuel oil with a maximum sulfur content of 0.5% to the 105.0 mmBtu/hr aggregate dryer burner shall be limited to 2,545,223 U.S. gallons per consecutive twelve (12) month period.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Ranger Materials Corporation
Source Address: SR 114, Disko, Indiana 46982
Mailing Address: P.O. Box 284, Warsaw, Indiana 46580
FESOP No.: F169-20336-00061
Facility: Cold-mix (stockpile mix) asphalt storage piles
Parameter: Diluent usage (tons)
Limit: The diluent usage in the production of cutback (stockpile mix) asphalt, based on 70% volatilization, shall be limited to 133.4 tons per consecutive twelve (12) month period.

YEAR: _____

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

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Name: Ranger Materials Corporation
Source Address: SR 114, Disko, Indiana 46982
Mailing Address: P.O. Box 284, Warsaw, Indiana 46580
FESOP No.: F169-20336-00061

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name: Ranger Materials Corporation
Source Location: State Road 114, Disko, Indiana 46982
County: Wabash
SIC Code: 2951
Operation Permit No.: F169-20336-00061
Permit Reviewer: Chrystal Wagner

On March 2, 2006, the Office of Air Quality (OAQ) had a notice published in the Wabash Plain Dealer, Wabash, Indiana, stating that Ranger Materials Corporation had applied for a Federally Enforceable State Operating Permit (FESOP) renewal for a stationary batch mix asphalt plant. The notice also stated that OAQ proposed to issue a permit renewal for this operation and provided information on how the public could review the proposed permit renewal and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit renewal should be issued as proposed.

Comments on the proposed FESOP renewal were received on March 30, 2006 from Elizabeth Hill, Bruce Carter Associates, LLC, on behalf of Ranger Materials Corporation.

Changes to the permit are noted as follows: ~~struck~~ language has been deleted; **bold** language has been added.

Section B

Comment B-1:

Condition B.11 requires that the Annual Compliance Certification be "submitted in letter form." This is not consistent with Nonrule Policy Document AIR 007 NPD which suggests the use of a tabular format for completing the Annual Compliance Certification. Ranger Materials is requesting that the phrase "in letter form" be removed from this condition.

Response to B-1:

OAQ agrees. This condition has been changed, as follows:

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

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

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

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

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

Cover Page

OAQ Change 1:

Upon further review, IDEM, OAQ has made the following revisions to the signature block of the permit, to reflect the current branch chief:

Operation Permit No.: F169-20336-00061	
Issued by: Paul Dubenetzky, Assistant Commissioner Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date:

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

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

Source Background and Description

Source Name:	Ranger Materials Corporation
Source Location:	State Road 114, Disko, Indiana 46982
County:	Wabash
SIC Code:	2951
Operation Permit No.:	F169-12210-00061
Operation Permit Issuance Date:	August 4, 2000
Permit Renewal No.:	F169-20336-00061
Permit Reviewer:	Chrystal Wagner

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Ranger Materials Corporation relating to the operation of a stationary batch 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) hot mix asphalt batch plant, identified as unit S-1, with a maximum capacity of processing 160 tons of aggregates per hour, equipped with one (1) No. 2 distillate fuel oil-fired aggregate dryer burner with a maximum rated capacity of 105 mmBtu/hr, using one (1) cyclone and one (1) baghouse in series for control, and exhausting to stack EU-01;
- (b) One (1) asphalt cement storage tank, with a maximum nominal capacity of 20,000 gallons (19,974 gallons), identified as Tank T1;
- (c) One (1) No. 2 fuel oil storage tank, with a maximum nominal capacity of 14,100 gallons (14,099 gallons), identified as Tank T2; and
- (d) Cutback (stockpile mix) asphalt storage piles.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

- (a) Fuel oil-fired combustion sources with heat input equal to or less than two (2) mmBtu/hr and firing fuel containing less than five-tenths percent (0.5%) sulfur by weight;
- (b) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment;

- (c) Paved and unpaved roads and parking lots with public access;
- (d) Other categories with emissions below insignificant thresholds:
 - (1) Truck loading,
 - (2) Conveyor transfers and batch drops,
 - (3) Aggregate storage.

Existing Approvals

The source has been operating under the previous FESOP 169-12210-00061 issued on August 4, 2000, with an expiration date of August 4, 2005, and the following amendments and revisions:

- (a) AA 169-12947-00061 issued on January 9, 2001.
- (b) AA 169-15962 issued on August 20, 2002.

The following terms and conditions from previous approvals have been determined no longer applicable. Therefore, they were not incorporated into this Part 70 permit:

Conditions D.3.1 and D.3.4: These conditions include recordkeeping requirements pursuant to 40 CFR 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels).

Reason not incorporated: 40 CFR 60.110, Subpart Kb was amended and no longer applies to storage tanks T1 and T2.

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

- (a) Condition D.1.8: This condition includes a fuel usage limit of 2,828,571 U.S. gallons per 12 consecutive month period to limit sulfur dioxide (SO₂) emissions to less than 100 tons per year.

This limit was based on an incorrect emission factor. The usage limit has been recalculated as follows, based on emission factors from AP-42, Table 1.3-1, 9/98:

$$99.9 \text{ tons SO}_2/\text{yr} \times 2000 \text{ lb/ton} \times \text{kgal}/78.5 \text{ lb} \times 1000 \text{ gal/kgal} = 2,545,223 \text{ gal/yr}$$

Therefore, the permit condition has been revised to include the new fuel usage limit.

- (b) Condition D.2.5: This condition includes a limit on VOC usage in the production of cutback (stockpile mix) asphalt of 94.29 tons per consecutive 12 month period to limit VOC emissions to less than 100 tons per year.

The VOC usage limit has been adjusted to account for 6.5 tons of VOC emissions per year from other emission units at the source. The VOC usage limit has been adjusted to 93.4 tons of VOC per consecutive 12 month period. This is equivalent to 133.4 tons of diluent used per consecutive 12 month period, based on 70% volatilization.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on November 1, 2004.

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

Emission Calculations

See Appendix A, pages 1 through 9, of this document for detailed emission calculations.

Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	22,434.95
PM ₁₀	3,161.46
SO ₂	257.90
VOC	13,742.16
CO	17.30
NO _x	78.80

HAP	Unrestricted Potential Emissions (tons/yr)
Xylene	0.02
Formaldehyde	0.02
Other HAP	0.11
Total	0.15

Potential to Emit After Issuance

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

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAP
Aggregate Drying	245.8	91.6	--	--	--	--	--
Aggregate Dryer Burner			<100.0	0.7	16.4	78.8	0.02
Load-Out	0.4	0.4	--	2.8	0.9	--	0.61
Cutback Asphalt	--	--	--	93.4	--	--	--
Storage Tanks	--	--	--	3.0	--	--	0.27
Unpaved Roads	2.3	0.9	--	--	--	--	--
Total Emissions	<250.0	<100.0	<100.0	<100.0	17.3	78.8	0.90

County Attainment Status

The source is located in Wabash County.

Pollutant	Status
PM ₁₀	attainment
PM _{2.5}	attainment
SO ₂	attainment
NO ₂	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Wabash County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Wabash County has been classified as attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (c) Wabash County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (d) Fugitive Emissions
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	<250
PM ₁₀	<100
SO ₂	<100
VOC	<100
CO	<100
NO _x	<100
Single HAP	<10
Combination HAP	<25

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

Federal Rule Applicability

- (a) This source is subject to the New Source Performance Standard, 326 IAC 12, 40 CFR 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities), because it is a hot mix asphalt facility that was constructed after June 11, 1973. Pursuant to 40 CFR 60.92, particulate matter emissions shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf) and limit visible emissions to 20% opacity. This facility is controlled by a baghouse that will limit particulate matter emissions to less than 0.03 gr/dscf. Nonapplicable portions of the NSPS will not be included in the permit. The affected source is subject to the following portions of Subpart I:

- (1) 40 CFR 60.90(a)-(b)
- (2) 40 CFR 60.91
- (3) 40 CFR 60.92(a)(1)-(2)
- (4) 40 CFR 60.93(a)
- (5) 40 CFR 60.93(b)(1)-(2)

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

- (b) Standards of Performance for Volatile Organic Liquid Storage, 40 CFR 60.110b, Subpart Kb, are not included in this permit for the asphalt cement storage tank, Tank T1, because tank T1 has a storage capacity that is greater than 75 cubic meters and less than 151 cubic meters, and the liquid stored in the tank has a maximum true vapor pressure of less than 15.0 kPa.
- (c) Standards of Performance for Volatile Organic Liquid Storage, 40 CFR 60.110b, Subpart Kb, are not included in this permit for the No. 2 fuel oil storage tank, Tank T2, because Tank T2 has a storage capacity that is less than 75 cubic meters.
- (d) The National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63, Subpart DDDDD are not included in this permit because the aggregate dryer burner is not located at a major source of HAP.

State Rule Applicability – Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

This source submitted a Preventive Maintenance Plan (PMP) on April 25, 2000. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

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

This source was constructed in 2000. This source is not subject to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) because it has accepted federally enforceable operating conditions that limit PM, PM₁₀, SO₂ and VOC emissions to less than 250 tons per year. Therefore, the requirements of 326 IAC 2-2 do not apply. See the rule applicability for 326 IAC 2-8-4 below.

Particulate matter (PM) emissions from the mixing and drying operation are limited to 56.12 pounds per hour, which is equivalent to 245.8 tons per year. Therefore, source-wide particulate matter emissions are less than 250 tons per year, and 326 IAC 2-2 does not apply.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

This source will emit less than 10 tons per year of a single HAP and 25 tons per year of a combination of HAP. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Wabash County and is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program. Therefore, 326 IAC 2-6 does not apply.

326 IAC 2-8-4 (Federally Enforceable Operating Permit (FESOP))

In order to comply with 326 IAC 2-8-4, the source has limited emissions of SO₂, PM₁₀, and VOC to less than 100 tons per year.

Pursuant to F169-12210-00061, issued on August 4, 2000 and 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 105.0 mmBtu/hr burner for the aggregate dryer shall be limited to 0.5 pounds per mmBtu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.

Pursuant to 326 IAC 2-8-4(1), the input of No. 2 fuel oil with a maximum sulfur content of 0.5% to the 105.0 mmBtu/hr burner for the aggregate dryer shall be limited to 2,545,223 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, so that SO₂ emissions are limited below 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 do not apply.

Pursuant to F169-12210-00061, issued on August 4, 2000, and 326 IAC 2-8-4, the combined PM₁₀ emissions from the aggregate mixing and drying operation shall not exceed 20.92 pounds per hour, including both filterable and condensable fractions. This limits PM₁₀ emissions to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 do not apply.

The VOC usage in the production of cutback (stockpile mix) asphalt shall be limited to 93.4 tons per consecutive 12 month period. This is equivalent to 133.4 tons of diluent used per year in the production of cutback (stockpile mix) asphalt, based on 70% volatilization. This limits source-wide VOC emissions to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-2 do not apply.

326 IAC 5-1 (Opacity Limitations)

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

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

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

This source is subject to the requirements of 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations) because it is a source requiring a permit under 326 IAC 2 that did not receive all the necessary preconstruction approvals before December 13, 1985. Pursuant to this rule, a fugitive dust control plan shall be submitted, reviewed, and approved. The Permittee has fulfilled these requirements. The fugitive dust control plan for this source includes the following:

- (a) Limit vehicle traffic speed on plant roadways to 10 miles per hour; and
- (b) Wind erosion of aggregate storage piles shall be controlled using water spray.

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-1(c)(5), manufacturing processes subject to 326 IAC 12, concerning new source performance standards are exempt from this rule. This source is subject to 326 IAC 12, NSPS 40 CFR 60, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities). Therefore, the requirements of 326 IAC 6-3-2 do not apply.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

Pursuant to this rule, SO₂ emissions from the 105 mmBtu/hr fuel oil-fired aggregate dryer burner shall be limited to 0.5 pounds per mmBtu heat input. This equates to a distillate fuel oil sulfur content of 0.5%. The source shall comply with this rule by using No. 2 distillate fuel oil with a sulfur content of 0.5% or less in the dryer.

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

This rule requires the Permittee to submit to OAQ, upon request, records of sulfur content, heat content, fuel consumption, and SO₂ emission rates of fuel combustion sources based on a calendar-month average.

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

This source produces cutback asphalt. Pursuant to this rule, the Permittee shall not cause or allow the use of cutback asphalt or asphalt emulsion containing more than 7% oil distillate by volume of emulsion for any paving application except as used for the following purposes:

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

The source is in compliance with this limit.

Testing Requirements

Testing is required because the hot mix asphalt batch plant uses a control device to comply with PM and PM₁₀ emission limits; and PM/PM₁₀ emissions from the mixing and drying operations is the

significant portion of the total PM/PM₁₀ emitted from the entire source. Testing verifies compliance with 326 IAC 2-2, 326 IAC 2-8, and 40 CFR 60, Subpart I.

PM₁₀ and PM testing shall be performed once every five (5) years after the initial valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C – Performance Testing.

Compliance Requirements

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

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

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

The aggregate dryer has applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the aggregate dryer baghouse stack exhaust shall be performed once per day during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting start up 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from the permit.
- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer, at least once daily when the aggregate dryer is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 5.0 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions or Exceedances. A pressure reading that is outside of the above mentioned range is not a deviation from the permit. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedances shall be considered a deviation from the permit. The instrument used for determining the pressure shall comply with Section C – Instrument Specifications, of the permit,

shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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

These monitoring conditions are necessary because the baghouse and cyclone for the aggregate dryer must operate properly to ensure compliance with 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this batch mix asphalt plant shall be subject to the conditions of FESOP 169-20336-00061.

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Batch Mix: #2 Fuel Oil-Fired Dryer**

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur <input type="text" value="0.5"/>
<input type="text" value="105"/>	6570	

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2 (157S)	NOx	VOC	CO
Potential Emission in tons/yr	2.0	78.5	24.0	0.20	5.0
	6.6	257.9	78.8	0.7	16.4

Methodology

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

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Batch Mix: #2 Fuel Oil-Fired Dryer
HAP Emissions

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

HAP - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	1.84E-03	1.38E-03	1.38E-03	1.38E-03	4.14E-03

HAP - Metals (continued)				
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	1.38E-03	2.76E-03	1.38E-03	6.90E-03

Methodology

No data was available in AP-42 for organic HAP.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)*Emission Factor (lb/mmBtu)*8,760 hrs/yr / 2,000 lb/ton

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Aggregate Drying: Batch Mix Plant**

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

Throughput: 160 tons/hr

Emission Factor in lb/ton product	Uncontrolled Emissions		Controlled Emissions	
	PM*	PM10	PM**	PM10***
Potential Emission in tons/yr	32.0	4.5	29.2	12.6

Methodology

Emissions (ton/yr) = Throughput (ton/hr) x Emission Factor (lb/ton) x 1 ton/2,000 lb x 8760 hr/yr

Emission Factors are from AP 42, Table 11.1-1, (SCC 3-05-002-45, -46, -47) 3/04

*PM emission factor is filterable PM only. Condensable PM emission factor is 0.013 lb/ton for inorganic and 0.0041 lb/ton for organic.

**PM control efficiency is 99.87% for one cyclone and one baghouse operated in series.

***PM10 control efficiency is 99.60% for one cyclone and one baghouse operated in series.

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Plant Load-Out: Batch Mix Plant**

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

Throughput: 160 tons/hr

	Emission Factor in lb/ton product	Potential Emissions in ton/yr
Total PM* $EF = 0.000181 + 0.00141(-V)e^{((0.0251)(T+460) - 20.43)}$	Total PM* 0.0005	0.37
Organic PM** $EF = 0.00141(-V)e^{((0.0251)(T+460) - 20.43)}$	Organic PM 0.0003	0.2
TOC*** $EF = 0.0172(-V)e^{((0.0251)(T+460) - 20.43)}$	TOC 0.0042	2.9
CO $EF = 0.00558(-V)e^{((0.0251)(T+460) - 20.43)}$	CO 0.0013	0.9

Where:

V = -0.5

T = 325

Methodology

EF = Emission Factor in lb/ton product

V = asphalt volatility. The default value of "-0.5" was used.

T = HMA mix temperature in °F. The default temperature of 325°F was used.

Emission Factors are from AP 42, Table 11.1-14, (SCC 3-05-002-14) 3/04

*Total PM is assumed to be predominantly PM_{2.5} since emissions consist of condensed vapors.

**Extractable organic PM, as measured by EPA Method 315.

***TOC as propane, as measured with EPA Method 25A sampling train or equivalent sampling train.

Potential Emissions (ton/yr) = throughput (ton/hr) x emission factor (lb/ton) x 8760 hr/yr x 1 ton/2000 lb

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Load-Out and Asphalt Storage: Batch Mix Plant**

Company Name: Ranger Materials Corporation
SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Pit ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

Throughput: 160 tons/hr
 Emission Factor for organic particulate-based
 compounds in lb/ton product: 0.0003

Pollutant	CASRN ¹	Speciation Profile for Load-Out and Yard Emissions ² (Compound / Organic PM ³)	Speciation Profile for Asphalt Storage Tank Emissions (Compound / Organic PM ³)	Load-Out and Yard Emissions (ton/yr)	Asphalt Storage Tank Emissions (ton/yr)
PAH ⁴ HAPs					
Acenaphthene	83-32-9	0.26%	0.47%	0.0006	0.0011
Acenaphthylene	208-96-8	0.028%	0.014%	0.0001	0.0000
Anthracene	120-1207	0.070%	0.13%	0.0002	0.0003
Benzo(a)anthracene	56-55-3	0.019%	0.056%	0.0000	0.0001
Benzo(b)fluoranthene	205-99-2	0.0076%	ND ⁵	0.0000	ND
Benzo(k)fluoranthene	207-08-9	0.0022%	ND ⁵	0.0000	ND
Benzo(g,h,i)perylene	191-24-2	0.0019%	ND ⁵	0.0000	ND
Benzo(a)pyrene	50-32-8	0.0023%	ND ⁵	0.0000	ND
Benzo(e)pyrene	192-97-2	0.0078%	0.0095%	0.0000	0.0000
Chrysene	218-01-9	0.103%	0.21%	0.0002	0.0005
Dibenz(a,h)anthracene	53-70-3	0.00037%	ND ⁵	0.0000	ND
Flouranthene	206-44-0	0.050%	0.15%	0.0001	0.0004
Flourene	86-73-7	0.77%	1.01%	0.0018	0.0024
Indeno(1,2,3-cd)pyrene	193-39-5	0.00047%	ND ⁵	0.0000	ND
2-Methylnaphthalene	91-57-6	2.38%	5.27%	0.0057	0.0126
Naphthalene	91-20-3	1.25%	1.82%	0.0030	0.0043
Perylene	198-55-0	0.022%	0.030%	0.0001	0.0001
Phenanthrene	85-01-8	0.81%	1.80%	0.0019	0.0043
Pyrene	129-00-0	0.15%	0.44%	0.0004	0.0010
Total PAH HAPs		5.93%	11.40%	0.0141	0.0272
Other semi-volatile HAPs					
Phenol		1.18%	ND ⁵	0.0028	ND

Methodology

Emission Factors are from AP 42, Table 11.1-15, 3/04

¹Chemical Abstract Service Registry Number

²Emissions from loaded trucks during the period between load-out and the time the truck departs the plant.

³Emission factor for compound is determined by multiplying the percentage presented for the compound by the emission factor for extractable organic particulate (organic PM) as determined from Table 11.1-14.

⁴PAH = Polycyclic Aromatic Hydrocarbon.

⁵ND = Measured data below detection limits

Emissions (ton/yr) = throughput, ton/hr * Emission Factor, lb/ton * 8760 hr/yr * 1 ton/2000 lb

Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Load-Out and Asphalt Storage: Batch Mix Plant

Company Name: Ranger Materials Corporation
SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Pit ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

Throughput: 160 tons/hr
Emission Factor for organic volatile-based
compounds in lb/ton product: 0.0042

Pollutant	CASRN ¹	Speciation Profile for Load-Out and Yard Emissions (Compound / TOC ²)	Speciation Profile for Asphalt Storage Tank Emissions (Compound / TOC ²)	Load-Out and Yard Emissions (ton/yr)	Asphalt Storage Tank Emissions (ton/yr)
VOC ³		94%	100%	2.7404	2.9153
Non-VOC/non-HAPs					
Methane	74-82-8	6.5%	0.26%	0.1895	0.0076
Acetone	67-64-1	0.046%	0.055%	0.0013	0.0016
Ethylene	74-85-1	0.71%	1.1%	0.0207	0.0321
Total non-VOC/non-HAPs		7.3%	1.4%	0.2128	0.0408
Volatile Organic HAPs					
Benzene	71-43-2	0.052%	0.032%	0.0015	ND
Bromomethane	74-83-9	0.0096%	0.0049%	0.0003	0.0001
2-Butanone	78-93-3	0.049%	0.039%	0.0014	0.0011
Carbon Disulfide	75-15-0	0.013%	0.016%	0.0004	ND
Chloroethane	75-00-3	0.00021%	0.0040%	0.0000	0.0001
Chloromethane	74-87-3	0.015%	0.023%	0.0004	0.0007
Cumene	92-82-8	0.11%	ND ⁴	0.0032	ND
Ethylbenzene	100-41-4	0.28%	0.038%	0.0082	0.0011
Formaldehyde	50-00-0	0.088%	0.69%	0.0026	0.0201
n-Hexane	100-54-3	0.15%	0.10%	0.0044	0.0029
Isooctane	540-84-1	0.0018%	0.00031%	0.0001	0.0000
Methylene Chloride	75-09-2	0.0% ⁵	0.00027%	0.0000	0.0000
MTBE	596899	0.0% ⁵	ND ⁴	0.0000	ND
Styrene	100-42-5	0.0073%	0.0054%	0.0002	0.0002
Tetrachloroethene	127-18-4	0.0077%	ND ⁴	0.0002	ND
Toluene	100-88-3	0.21%	0.062%	0.0061	0.0018
1,1,1-Trichloroethane	71-55-6	0.0% ⁵	ND ⁴	0.0000	ND
Trichloroethene	79-01-6	0.0% ⁵	ND ⁴	0.0000	ND
Trichlorofluoromethane	75-69-4	0.0013%	ND ⁴	0.0000	ND
m-/p-Xylene	1330-20-7	0.41%	0.2%	0.0120	0.0058
o-Xylene	95-47-6	0.08%	0.057%	0.0023	0.0017
Total volatile organic HAPs		1.5%	1.3%	0.0437	0.0379

Methodology

Emission Factors are from AP 42, Table 11.1-16, 3/04

¹Chemical Abstract Service Registry Number

²Emission factor for compound is determined by multiplying the percentage presented for the compound by the emission factor for total organic compounds (TOC) as determined from Table 11.1-14.

³The VOC percentages are equal to 100 percent of TOC minus the methane, acetone, methylene chloride, and 1,1,1-trichloroethane percentages.

⁴ND = Measured data below detection limits.

⁵Values presented as 0.0% had background concentrations higher than the capture efficiency-corrected measured concentration.

Emissions (ton/yr) = throughput, ton/hr * Emission Factor, lb/ton * 8760 hr/yr * 1 ton/2000 lb

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Unpaved Roads**

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

$$E = k (s/12)^a (W/3)^b$$

Constant	PM*	PM ₁₀	E _{PM2.5} (lb/VMT)	E _{PM10} (lb/VMT)	PTE PM (ton/yr)	PTE PM ₁₀ (ton/yr)
k (lb/VMT)	4.9	1.5	0.429865146	0.160726064	2.2895	0.8560
a	0.7	0.9				
b	0.45	0.45				

Methodology

E = Size-specific emission factor in lb/VMT (vehicle mile traveled)

s = Surface material silt content (%). 5% was used here.

W = Mean vehicle weight (tons). 20 tons was used here.

VMT = 15.2 trips/hr x 0.04 miles/trip x 2 (round trip) x 8760 hr/yr = 10652.16 miles per year

*PM = Assumed equivalent to total suspended particulate matter (TSP) and PM₁₀.

Emission Factors are from AP 42, 13.2.2-4 and Table 13.2.2-2 (12/03)

PTE (ton/yr) = E (lb/VMT) x 10652.16 VMT/yr x 1 ton/2000 lb

**Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
Storage**

**Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Pit ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006**

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use.

From AP-42, 3rd Edition, Supplement 14, 1983, Chapter 11.2.3 Aggregate Handling and Storage Piles.

$$E = 1.7(s/1.5)(365-p/235)(f/15) \quad (\text{lb/day/acre})$$

s = 4.9
p = 125
f = 15

Emission Factor (E)
5.67

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

sc = 4,000

PTE PM*, Ep (ton/yr)	PTE PM ₁₀ ** (ton/yr)
0.08	0.03

Methodology

E = total suspended particulate emission factor

s = silt content of aggregate (4.9%)

p = number of days with $\geq 0.25\text{mm}$ (0.01 in.) of precipitation per year (125)

f = percentage of time that the unobstructed wind speed exceeds 5.4 m/s (12 mph) at the mean pile height (15%)

sc = storage capacity (4,000 tons)

PTE (ton/yr) = 5.67 lb/day/acre * 4,000 tons * 20 ft³/ton * 365 days/yr * ton/2000 lb * acre/43560 ft² * 1/25 ft

*PM = Assumed equivalent to total suspended particulate matter (TSP) and PM₃₀.

**PM₁₀ = Assumed equivalent to 35% PM.

Appendix A: Emissions Calculations
Hot Mix Asphalt Plant
VOC: Cutback Asphalt, Cold Mix Storage

Company Name: Ranger Materials Corporation
Address, City IN Zip: SR 114, Disko, Indiana 46982
Permit Number: F169-20336-00061
Plt ID: 169-00061
Reviewer: Chrystal Wagner
Date: February 6, 2006

The following calculations determine the amount of VOC emissions created by the application of cutback asphalt with a typical value of 25% by volume of diluent, based on 8760 hours of use.

From AP-42, 5th Edition, Chapter 4.5, Table 4.5-1.

VOC Emission Factor = 0.98% weight percent flash-off* of cold mix
Potential Throughput Stockpile Mix (tons/yr) = 1,401,600

Potential VOC Emissions (tons/yr) = 13,735.68

Methodology

*Weight percent flash-off is based on a 7.0 percent by weight of cutback asphalt, containing 25% by volume of diluent of which 70% volatilizes, in stockpile mix and 24% by weight of cutback asphalt evaporated.

Potential VOC Emissions (tons/yr) = Potential Throughput Stockpile Mix (tons/yr) * VOC Emission Factor