



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 8, 2008

RE: Xtreme Contractors, LLC / 181-24537-00048

FROM: Matthew Stuckey, Branch 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, Suite N 501E, 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.dot12/03/07



Mitchell E. Daniels, Jr.
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Thomas W. Easterly
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100 North Senate Avenue
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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Xtreme Contractors, LLC
366 East U.S. Highway 24
Reynolds, Indiana 47980**

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

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

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.

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.

Operation Permit No.: F181-24537-00048	
Issued by: Original Signed By: Chrystal Wagner, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 8, 2008 Expiration Date: May 8, 2013

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SECTION A SOURCE SUMMARY

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

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

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

Source Address:	366 East U.S. Highway 24, Reynolds, Indiana 47980
Mailing Address:	348 East U.S. Highway 24, Reynolds, IN 47980
General Source Phone Number:	(219) 984-5144
SIC Code:	2951
County Location:	White
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 2 off-road diesel-fired aggregate dryer/burner with a maximum rated capacity of 27 million (MM) Btu per hour, using a cyclone and a wet washer (scrubber) for air pollution control, exhausting at one (1) stack, identified as Stack SV1;
- (b) one (1) cold aggregate belt conveyor;
- (c) one (1) cold aggregate elevator;
- (d) one (1) hot aggregate enclosed elevator; and
- (e) four (4) cold aggregate feeder bins.

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:

- (a) one (1) No. 2 distillate oil fired hot oil heater, with a maximum rated capacity of 1.2 MMBtu per hour;
- (b) paved roads and parking lots with public access [326 IAC 6-4][326 IAC 6-5];
- (c) three (3) No. 2 distillate fuel oil storage tanks, identified as T1, T2, and T3, constructed in 2000, 1983, and 1988 respectively, each with a maximum storage capacity of 6000 gallons, exhausting at three (3) tube/vents, identified as T1, T2, and T3 respectively;
- (d) one (1) No. 2 distillate fuel oil storage tank, identified as T4, constructed in 1983, with a maximum storage capacity of 1000 gallons, exhausting at one (1) tube/vent, identified as T4;

- (e) one (1) liquid asphalt storage tank, identified as T5, constructed in 1988, with a maximum storage capacity of 18,000 gallons, exhausting at one (1) tube/vent, identified as T5;
- (f) one (1) propane storage tank, identified as T6, with a maximum storage capacity of 1000 gallons, exhausting at one (1) tube/vent, identified as T6;
- (g) one (1) sealcoat storage tank, identified as T7, with a maximum storage capacity of 6000 gallons, exhausting at one (1) tube/vent, identified as T7; and
- (h) one (1) gasoline storage tank, identified as T8, with a maximum storage capacity of 250 gallons, exhausting at one (1) tube/vent, identified as T8.

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).

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F181-24537-00048, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

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

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

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

B.8 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.9 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

B.10 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.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

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

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

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

- (a) All terms and conditions of permits established prior to F181-24537-00048 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating

Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the

deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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, for public review.

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

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

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

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

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

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

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

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

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission 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.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of 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]

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on January 22, 2001. The plan is included as Attachment A.

C.8 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
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

C.9 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.11 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

C.12 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.13 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

C.14 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.15 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; and/or
- (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.16 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 twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.17 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.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)][326 IAC 2-1.1-11]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.19 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 EMISSIONS UNIT OPERATION CONDITIONS

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

- (a) one (1) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 2 off-road diesel-fired aggregate dryer/burner with a maximum rated capacity of 27 million (MM) Btu per hour using a cyclone and a wet washer (scrubber) for air pollution control, exhausting at one (1) stack, identified as Stack SV1;
- (b) one (1) cold aggregate belt conveyor;
- (c) one (1) cold aggregate elevator;
- (d) one (1) hot aggregate enclosed elevator; and
- (e) four (4) cold aggregate feeder bins.

(The information describing the process contained in this emissions unit 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 [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable PM emission rate from the aggregate mixing and drying operation shall not exceed 46.3 pounds per hour when operating at a process weight rate of 60 tons per hour. The pound per hour limitation was calculated using the following equation:

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

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

D.1.2 Particulate Matter Less Than 10 Microns in Diameter (PM₁₀) [326 IAC 2-8-4]

- (a) Emissions of particulate matter less than 10 microns in diameter (PM₁₀) from the aggregate mixing and drying operation shall not exceed 1.5 pounds of PM₁₀ per ton of asphalt mix produced.
- (b) Production of hot asphalt mix shall not exceed 100,000 tons per twelve (12) consecutive month period.

Compliance with these limits restricts total source-wide PM₁₀ emissions to less than 100 tons per year and satisfies 326 IAC 2-8-4, rendering the requirements of Part 70 (326 IAC 2-7) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 7-2-1]

- (a) Pursuant to 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 27.0 million Btu per hour burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.49% when using No. 2 off-road diesel fuel.
- (b) Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.5 Particulate Matter (PM)

In order to comply with Conditions D.1.1 and D.1.2, the cyclone and wet scrubber in series for PM and PM₁₀ control shall be in operation and control emissions from the batch mix dryer/burner at all times that the batch mix dryer/burner is in operation.

D.1.6 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/PM₁₀ testing on the aggregate mixing and drying operation utilizing methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀. This test shall be repeated at least once every five (5) years from the date of the previous valid compliance demonstration. Therefore, the next test shall be performed by May 30, 2008 and 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 sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input when burning No. 2 off-road diesel fuel by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 27 MMBtu per hour burner for the aggregate dryer, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.1.8 Visible Emissions Notations

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

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

D.1.9 Parametric Monitoring

The Permittee shall record the scrubbing liquid (water) flow rate across the wet scrubber used in conjunction with the aggregate mixing and dryer/burner at least once per day when the aggregate mixing/drying facility is in operation. When for any one reading, the water flow rate is less than 40 gallons per minute, or a value established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A flow rate that is less than the 40 gallons per minute, or a value established during the latest stack test, 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 violation of this permit.

The instrument used for determining the water flow rate 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.1.10 Cyclone/ Wet Scrubber Failure Detection

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

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

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

D.1.11 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.3 and D.1.7, the Permittee shall maintain records in accordance with (1) and (2) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) 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:

 - (A) fuel supplier certifications.
 - (B) the name of the fuel supplier; and
 - (C) a statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support

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

- (b) To document compliance with Condition D.1.8, the Permittee shall maintain records of the once per day visible emission notations of the batch mix dryer/burner cyclone/wet scrubber stack exhaust, conveyors, and transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document compliance with Condition D.1.9, the Permittee shall maintain weekly records of the once per day scrubbing liquid (water) flow rate readings during normal operation.
- (d) To document compliance with Condition D.1.2, the Permittee shall maintain records of the amount of asphalt produced.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.12 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Xtreme Contractors, LLC
Source Address: 366 East U.S. Highway 24, Reynolds, Indiana 47980
Mailing Address: 348 East U.S. Highway 24, Reynolds, IN 47980
FESOP Permit No.: F181-24537-00048

**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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Xtreme Contractors, LLC
Source Address: 366 East U.S. Highway 24, Reynolds, Indiana 47980
Mailing Address: 348 East U.S. Highway 24, Reynolds, IN 47980
FESOP Permit No.: F181-24537-00048

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report - Asphalt Production

Source Name: Xtreme Contractors, LLC
Source Address: 366 East U.S. Highway 24, Reynolds, Indiana 47980
Mailing Address: 348 East U.S. Highway 24, Reynolds, IN 47980
FESOP Permit No.: F181-24537-00048
Facility: one (1) aggregate drying and mixing operation exhausting through a cyclone and wet washer (scrubber) at Stack SV1
Parameter: asphalt production
Limit: 100,000 tons per twelve (12) consecutive 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**

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

Source Name: Xtreme Contractors, LLC
Source Address: 366 East U.S. Highway 24, Reynolds, Indiana 47980
Mailing Address: 348 East U.S. Highway 24, Reynolds, IN 47980
FESOP Permit No.: F181-24537-00048

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following methods:

Paved roads and parking lots:

- (1) cleaning by vacuum sweeping on an as needed basis (monthly at a minimum);
- (2) power brooming while wet either from rain or application of water.

Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:

- (1) maintaining minimum size and number of aggregate stock piles;
- (2) treating around the stockpile area with emulsified asphalt;
- (3) treating around the stockpile area with water;
- (4) treating the stockpiles with water.

Fugitive particulate matter emissions from outdoor conveying of aggregates shall be controlled by the following method on an as needed basis:

- (1) applying water at the feed and the intermediate points.

Fugitive particulate matter emissions from the transfer of aggregates shall be controlled by one of the following methods:

- (1) minimizing the vehicular distance between transfer points;
- (2) enclosing the transfer points;
- (3) applying water to transfer points on an as needed basis.

Fugitive particulate matter emissions from transportation of aggregate by truck, front end loader, etc. shall be controlled by one of the following methods:

- (1) tarping the aggregate hauling vehicles;
- (2) maintaining vehicle bodies in a condition to prevent leakage;
- (3) spraying the aggregates with water;
- (4) maintaining a 10 MPH speed limit in the yard.

Fugitive particulate matter emissions from the loading and unloading of aggregate shall be controlled by one of the following methods:

- (1) reducing free fall distance to a minimum;
- (2) reducing the rate of discharge of the aggregate;
- (3) spraying the aggregate with water on an as needed basis.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Name: Xtreme Contractors, LLC
Source Location: 366 East U.S. Highway 24, Reynolds, IN 47980
County: White
SIC Code: 2951
Permit Renewal No.: F181-24537-00048
Permit Reviewer: Meredith W. Jones

On March 15, 2008, the Office of Air Quality (OAQ) had a notice published in The Herald Journal in Monticello, Indiana, stating that Xtreme Contractors, LLC had applied for a Federally Enforceable State Operating Permit renewal for a stationary hot mix asphalt batch 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.

Changes to the permit are noted as follows: ~~struck~~ language has been deleted; **bold** language has been added. No changes have been made to the TSD, however, because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice.

OAQ Change:

Because the pressure drop and water flow rate ranges established during a stack test can be very narrow and potentially cause excursions on a regular basis, the parametric monitoring requirements and corresponding record keeping requirements have been modified as follows:

D.1.9 Parametric Monitoring

The Permittee shall record the ~~pressure drop and~~ scrubbing liquid (water) flow rate across the wet scrubber used in conjunction with the aggregate mixing and dryer/burner, at least once per day when the aggregate mixing/drying facility is in operation. When for any one reading, ~~the pressure drop across the wet scrubber or the water flow rate is~~ **less than 40 gallons per minute, outside the normal range established during the next stack test, or a value 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 normal range established during the next stack test~~ **flow rate that is less than the 40 gallons per minute, or a value established during the latest stack test**, 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 violation of this permit.

The instrument used for determining the ~~pressure~~ **water flow rate** 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 Record Keeping Requirements

...

- (c) To document compliance with Condition D.1.9, the Permittee shall maintain weekly records of the once per day ~~pressure drop and the~~ scrubbing liquid (water) flow rate readings during normal operation.

...

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Xtreme Contractors, LLC
Source Location:	366 East U.S. Highway 24, Reynolds, IN 47980
County:	White
SIC Code:	2951
Permit Renewal No.:	F181-24537-00048
Permit Reviewer:	Meredith W. Jones

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Xtreme Contractors, LLC relating to the operation of a stationary hot mix asphalt batch plant.

History

On March 30, 2007, Xtreme Contractors, LLC submitted an application to the OAQ requesting to renew its operating permit. Xtreme Contractors, LLC was issued FESOP No. F181-13818-03172 on January 6, 2003.

Permitted Emission Units and Pollution Control Equipment

- (a) one (1) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 2 off-road diesel-fired aggregate dryer/burner with a maximum rated capacity of 27 million (MM) Btu per hour, using a cyclone and a wet washer (scrubber) for air pollution control, exhausting at one (1) stack, identified as Stack SV1;
- (b) one (1) cold aggregate belt conveyor;
- (c) one (1) cold aggregate elevator;
- (d) one (1) hot aggregate enclosed elevator; and
- (e) four (4) cold aggregate feeder bins.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

- (a) one (1) No. 2 distillate oil fired hot oil heater, with a maximum rated capacity of 1.2 MMBtu per hour;
- (b) paved roads and parking lots with public access [326 IAC 6-4][326 IAC 6-5];
- (c) three (3) No. 2 distillate fuel oil storage tanks, identified as T1, T2, and T3, constructed in 2000, 1983, and 1988 respectively, each with a maximum storage capacity of 6000 gallons, exhausting at three (3) tube/vents, identified as T1, T2, and T3 respectively;

- (d) one (1) No. 2 distillate fuel oil storage tank, identified as T4, constructed in 1983, with a maximum storage capacity of 1000 gallons, exhausting at one (1) tube/vent, identified as T4;
- (e) one (1) liquid asphalt storage tank, identified as T5, constructed in 1988, with a maximum storage capacity of 18,000 gallons, exhausting at one (1) tube/vent, identified as T5;
- (f) one (1) propane storage tank, identified as T6, with a maximum storage capacity of 1000 gallons, exhausting at one (1) tube/vent, identified as T6;
- (g) one (1) sealcoat storage tank, identified as T7, with a maximum storage capacity of 6000 gallons, exhausting at one (1) tube/vent, identified as T7; and
- (h) one (1) gasoline storage tank, identified as T8, with a maximum storage capacity of 250 gallons, exhausting at one (1) tube/vent, identified as T8.

Existing Approvals

Since the issuance of FESOP No. F181-13818-03172 on January 6, 2003, the source has been operating under the following approvals as well:

- (a) Significant Permit Revision No. 181-17470-03172 issued on August 19, 2005.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

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

- (a) PM₁₀ limit

The PM₁₀ limit in FESOP No. F181-13818-03172 and Significant Permit Revision No. 181-17470-03172 was based on 8760 hours of operation per twelve (12) consecutive month period. The new PM₁₀ limit allows the source to emit 1.5 pounds of PM₁₀ per ton of asphalt mix produced and limits asphalt mix production to 100,000 tons per twelve (12) consecutive month period to ensure that the source can comply with 326 IAC 2-8-4.

- (b) 40 CFR 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels): storage tank T5

The one (1) liquid asphalt storage tank, identified as T5, is no longer subject to the requirements of 40 CFR 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels) because the capacity of the tank is less than the 75 m³ applicability threshold.

Enforcement Issue

There are no enforcement actions pending.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in White County

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

- (a) White 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 the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.
- (b) 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 emissions and NO_x emissions are considered when evaluating the rule applicability relating to ozone. White County has been designated as attainment for ozone. Therefore, VOC emissions 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 – Entire Source section.
- (c) White County has been classified as attainment or unclassifiable in Indiana 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 – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
 While this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the source's fugitive emissions are counted toward determination of PSD applicability because of the New Source Performance Standard (40 CFR Part 60, Subpart I) that was in effect for hot mix asphalt facilities, in general, on August 7, 1980.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	8412.07
PM ₁₀	1185.83
SO ₂	61.39
VOC	2.45
CO	4.41
NO _x	17.65

HAPs	tons/year
Acetaldehyde:	8.41E-02
Arsenic:	4.73E-04
Benzene:	7.36E-02
Beryllium:	3.55E-04
Cadmium:	3.55E-04
Chromium:	3.55E-04
Ethylbenzene:	5.78E-01
Formaldehyde:	1.94E-01
Lead:	1.06E-03
Manganese:	7.10E-04
Mercury:	3.55E-04
Nickel:	3.55E-04
Quinone:	7.10E-02
Toluene:	2.63E-01
Total PAH/ POM*:	6.04E-02
Xylene:	7.10E-01
Total	2.04

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ is equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, because the source has agreed to limit PM₁₀ emissions to less than Title V levels, the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants is less than 100 tons per year.
- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of the combination of HAPs is less than twenty-five (25) tons per year.
- (d) While this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the source's fugitive emissions are counted toward the determination of Part 70 applicability because of the New Source Performance Standard (40 CFR Part 60, Subpart I) that was in effect for hot mix asphalt facilities on August 7, 1980.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	not reported
PM ₁₀	0.25
SO ₂	0.38
VOC	0.14
CO	0.20
NO _x	0.19
HAPs	not reported

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.

Process/ emission unit	Potential To Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Hot Oil Heater	negl.	0.12	2.61	negl.	0.19	0.75	---
Aggregate Drying	33.65 ¹	75.0 ²	58.78	0.29	4.22	16.89	2.04
Conveying & Handling ³	0.54	0.25	---	---	---	---	---
Storage Piles ³	0.17	0.26	---	---	---	---	---
Total Emissions	34.36	75.63	61.39	0.29	4.41	17.64	2.04

¹ Pursuant to 326 IAC 2-6-3

² Pursuant to 326 IAC 2-8-4

³ Uncontrolled emissions

Federal Rule Applicability

- (a) The requirements of the New Source Performance Standard for Hot Mix Asphalt Facilities, 40 CFR Parts 60.90 - 60.93, Subpart I, are not included in the permit for this stationary hot mix asphalt batch mix plant because construction of the source commenced prior to June 11, 1973.
- (b) The requirements of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, 326 IAC 12 (40 CFR Parts 60.110 - 60.117b, Subparts K, Ka, and Kb), are not included in this permit.
 - (1) The one (1) 18,000 gallon liquid asphalt storage tank, constructed in 1988 and identified as T5, and the two (2) distillate fuel oil storage tanks known as T1 and T3, constructed in 2000 and 1988 respectively, are not subject to 326 IAC 12 (40 CFR Part 60.110b, Subpart Kb) because the capacity of each tank is less than 75 m³.
 - (2) The two (2) distillate fuel oil storage tanks known as T2 and T4, both constructed in 1983, are not subject to 326 IAC 12 (40 CFR Part 60.110a, Subpart Ka) because the capacity of each tank is less than 40,000 gallons.
 - (3) The one (1) propane storage tank, identified as T6; the one (1) sealcoat storage tank, identified as T7; and the one (1) gasoline storage tank, identified as T8, are not subject to 326 IAC 12 (40 CFR Part 60.110, Subpart K; Part 60.110a, Subpart Ka; or Part 60.110b, Subpart Kb) because the capacity of each tank is less than 40,000 gallons and 75 m³.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

State Rule Applicability - Entire Source

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

This source is not subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) because construction of the source commenced prior to the applicability date of January 6, 1975.

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

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). No facilities have been constructed or reconstructed at this source since July 27, 1997 that have an uncontrolled potential to emit at least 10 tons per year of any single HAP or at least 25 tons per year of combined HAPs. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) do not apply to this source.

326 IAC 2-6 (Emission Reporting)

This source is not required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program; is not located in Lake County, Porter County, or LaPorte County; and does not emit lead into the ambient air at levels equal to or greater than five (5) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 2-8-4 (FESOP)

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

- (a) PM₁₀ emissions from the aggregate dryer shall be limited to 1.5 pounds PM₁₀ per ton of asphalt mix and production of asphalt mix shall be limited to 100,000 tons per twelve (12) consecutive month period. Together, these constraints limit the potential to emit PM₁₀ from the aggregate mixing and drying operations to 75 tons per year, and therefore limit PM₁₀ emissions from the entire source to less than 100 tons per year. The source is able to comply with this limit by utilizing a cyclone and wet scrubber in series to control PM₁₀ emissions from the aggregate dryer.
- (b) The only sources of SO₂ and NO_x emissions at this source are the aggregate dryer/burner (combustion) and hot oil heater (insignificant activity), which together have the uncontrolled potential to emit less than one hundred (100) tons per year of both SO₂ and NO_x. Consequently, this source does not need to limit SO₂ or NO_x emissions in order to comply with 326 IAC 2-8-4 (FESOP).
- (c) This source does not produce cutback or emulsified asphalt. The only sources of VOC emissions at this source are the aggregate dryer/burner (combustion) and the liquid storage tanks (insignificant activity), which together have the uncontrolled potential to emit less than one hundred (100) tons per year of VOCs. This source, therefore, does not need to limit VOC emissions in order to comply with 326 IAC 2-8-4 (FESOP).

For the reasons explained above, the requirements of 326 IAC 2-7 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 6-4 (Fugitive Dust Emissions)

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

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

The fugitive dust control plan for this source was submitted on January 22, 2001 and is as follows:

- (a) Fugitive particulate matter emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following methods:

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

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable PM emission rate from the aggregate mixing and drying operation shall not exceed 46.3 pounds per hour when operating at a process weight rate of 60 tons per hour. The pound per hour limitation was calculated using the following equation:

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

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

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The wet scrubber and cyclone shall be in operation at all times the aggregate dryer is in operation in order to enable the source to comply with this limit.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The 27 MMBtu per hour aggregate dryer/burner is subject to 326 IAC 7-1.1 because it has the potential to emit (25) twenty-five tons per year or greater of sulfur dioxide. The sulfur dioxide emissions from the aggregate dryer/burner shall be limited to 0.5 lb/MMBtu for distillate oil combustion. This equates to a fuel oil sulfur content limit of 0.49%. Therefore, the sulfur content of the fuel must be less than or equal to 0.49% in order to comply with this rule (see Appendix A of the TSD for detailed calculations).

The 1.2 MMBtu per hour hot oil heater is not subject to the requirements of this rule because potential SO₂ emissions from this unit are less than 25 tons per year.

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

This source is subject to 326 IAC 7-1 for the 27 MMBtu per hour aggregate dryer/burner because it has the potential to emit (25) twenty-five tons per year or more of sulfur dioxide. As such, and pursuant to 326 IAC 7-2 (Compliance), the source shall demonstrate compliance with the 326 IAC 7-1 SO₂ emission limitation by recording, and submitting to the OAQ upon request, the information as specified, including fuel sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average.

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

The storage tanks at this source are not subject to 326 IAC 8-4-3 because none of the tanks have an individual storage capacity of greater than 39,000 gallons.

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

No person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except for the following purposes:

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

This source does not produce emulsified asphalt. Therefore, the requirements of 326 IAC 8-5-2 are not applicable.

Testing Requirements

IDEM, OAQ has required PM/PM₁₀ stack testing on the aggregate mixing and drying operation in order to demonstrate compliance with permit Conditions D.1.1 and D.1.2. The source conducted a stack test on May 30, 2003.

Testing shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Therefore, the next test shall be performed by May 30, 2008 and shall be conducted in accordance with Section C- Performance Testing, of the permit.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a 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 Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

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

- (a) Visible emission notations of the batch mix dryer/burner cyclone/wet scrubber stack exhaust, conveyors, and transfer points shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (b) The Permittee shall record the pressure drop and scrubbing liquid (water) flow rate across the wet scrubber used in conjunction with the aggregate mixing and dryer/burner, at least once per day when aggregate mixing/drying is in operation. When for any one (1) reading, the pressure drop across the wet scrubber or the water flow rate is outside the normal range established during the next 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 normal range established during the next stack test 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 violation of this permit.
- (c) In the event that a cyclone or wet scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency

provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a violation of this permit.

These monitoring conditions are necessary because the cyclone and wet scrubber for the aggregate dryer must operate properly to ensure compliance with 326 IAC 2-8 (FESOP) and 6-3-2 (Particulate Emission Limitations, Work Practices, and Control Technologies).

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 application for the purposes of this review was received on March 30, 2007.

Conclusion

The operation of this stationary hot mix asphalt batch plant shall be subject to the conditions of the attached FESOP Renewal No. F181-24537-00048.

Company Name: Xtreme Contractors, LLC
 Address : 366 East US Highway 24, Reynolds, IN 47980
 Permit Number: F181-24537-00048
 Reviewer: Meredith W. Jones
 Date: 10/10/07

****Summary: Source Emissions Before Controls****

PM = 8412.07 ton/yr
 PM-10 = 1185.83 ton/yr
 SO₂ = 61.39 ton/yr
 NO_x = 17.65 ton/yr
 VOCs* = 2.45 ton/yr
 CO = 4.41 ton/yr

*VOCs include HAPs from aggregate drying operation

****Source Emissions After Controls****

Pursuant to the FESOP program, this facility must limit PM-10 emissions to less than 100 tons per year. Emissions of PM and PM-10 from aggregate drying operations are controlled by both a wet scrubber and a cyclone, which together provide a 99.6% control efficiency.

<u>Hot Oil Heater:</u>		(Non-Fugitive)	
PM =	0.08 ton/yr x	100%	emitted after controls = 0.08 ton/yr
PM-10 =	0.12 ton/yr x	100%	emitted after controls = 0.12 ton/yr

<u>Aggregate Drying:</u>		(Non-Fugitive)	
PM =	8411.29 ton/yr x	0.4%	emitted after controls = 33.65 ton/yr
PM-10 =	1185.39 ton/yr x	0.4%	emitted after controls = 4.74 ton/yr

<u>Loading & Handling:</u>		(Fugitive)	
PM =	0.54 ton/yr x	50%	emitted after controls = 0.27 ton/yr
PM-10 =	0.25 ton/yr x	50%	emitted after controls = 0.13 ton/yr

<u>Storage Piles:</u>		(Fugitive)	
PM =	0.17 ton/yr x	50%	emitted after controls = 0.08 ton/yr
PM-10 =	0.06 ton/yr x	50%	emitted after controls = 0.03 ton/yr

****Summary: Source Emissions After Controls****

	Non-Fugitive	Fugitive	Total
PM =	33.72 ton/yr	0.35 ton/yr	34.07 ton/yr
PM-10 =	4.87 ton/yr	0.16 ton/yr	5.02 ton/yr
SO ₂ =	61.39 ton/yr	0.00 ton/yr	61.39 ton/yr
NO _x =	17.65 ton/yr	0.00 ton/yr	17.65 ton/yr
VOCs =	2.45 ton/yr	0.00 ton/yr	2.45 ton/yr
CO =	4.41 ton/yr	0.00 ton/yr	4.41 ton/yr

****Summary: HAP Emissions****

	Potential to Emit	Limited Emissions
Acetaldehyde:	8.41E-02 ton/yr	8.41E-02 ton/yr
Arsenic:	4.73E-04 ton/yr	1.89E-06 ton/yr
Benzene:	7.36E-02 ton/yr	7.36E-02 ton/yr
Beryllium:	3.55E-04 ton/yr	1.42E-06 ton/yr
Cadmium:	3.55E-04 ton/yr	1.42E-06 ton/yr
Chromium:	3.55E-04 ton/yr	1.42E-06 ton/yr
Ethylbenzene:	5.78E-01 ton/yr	5.78E-01 ton/yr
Formaldehyde:	1.94E-01 ton/yr	1.94E-01 ton/yr
Lead:	1.06E-03 ton/yr	1.06E-03 ton/yr
Manganese:	7.10E-04 ton/yr	2.84E-06 ton/yr
Mercury:	3.55E-04 ton/yr	1.42E-06 ton/yr
Nickel:	3.55E-04 ton/yr	1.42E-06 ton/yr
Quinone:	7.10E-02 ton/yr	7.10E-02 ton/yr
Toluene:	2.63E-01 ton/yr	2.63E-01 ton/yr
Total PAH/ POM*:	6.04E-02 ton/yr	6.04E-02 ton/yr
Xylene:	7.10E-01 ton/yr	7.10E-01 ton/yr
Total:	2.04 ton/yr	2.04 ton/yr

* POM = Polycyclic Organic Matter

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****Miscellaneous****

Compliance with 326 IAC 6-3-2

Pursuant to 326 IAC 6-3-2, the emission limit for processing 60 tons/hr of hot mix asphalt (greater than 60,000 lbs/hr) is calculated as:

$$E = 55 * (P^{0.11}) - 40 \quad \text{where:} \quad \begin{array}{l} E = \text{Rate of emission in pounds per hour} \\ P = \text{Process weight rate in tons per hour} \end{array}$$

Therefore, the allowable PM emission rate is 46.3 lbs/hr ($55.0 * (60^{0.11}) - 40$). This is equivalent to 202.79 tons/yr and 4.06 lbs/ton of asphalt mix, assuming 8760 hours of source operation and an asphalt production limit of 100,000 tons per twelve (12) consecutive month period.

The maximum controlled PM emission rate from asphalt mixing and drying is 33.65 tons/yr (7.68 lbs/hr).

$$33.65 \text{ (tons/yr)} * (2000 \text{ lbs/ ton)} * (1 \text{ yr/ } 8760 \text{ hrs)} = 7.68 \text{ lbs/hr}$$

Because the controlled PM emission rate of 7.68 lbs/hr is less than the allowable PM emission rate of 46.3 lbs/hr, the source is able to comply with this limit when using its control devices.

Compliance with 326 IAC 7

Pursuant to 326 IAC 7, SO₂ emissions from fuel combustion emission units shall be limited to 0.5 lb/MMBtu for distillate oil combustion. The AP 42 emission factor for SO₂ with a 0.49% sulfur content is 69.58 (lbs/kgal). As demonstrated below, the source is able to comply with this limit given that the fuel combusted has a sulfur content of no more than 0.49%.

$$69.58 \text{ (lbs/kgal)} * (1 \text{ gal/ } 140,000 \text{ Btu)} * (1 \text{ kgal/ } 1000 \text{ gal)} * (1,000,000 \text{ Btu/ MMBtu)} = 0.497 \text{ lbs/MMBtu}$$

Compliance with 326 IAC 2-8-4

Pursuant to 326 IAC 2-8-4, the source's potential to emit PM-10 shall be limited to less than 100 tons per year. The PM-10 emissions are therefore limited as follows:

$$\begin{aligned} & 99.0 \text{ tons/yr (source PM-10 emission limit)} - 0.28 \text{ tons/yr (PM-10 emissions from operations other than aggregate mixing and} \\ & \quad \quad \quad \text{drying, after controls)} \\ & = 98.72 \text{ tons PM-10/yr} \\ & 98.72 \text{ (tons/yr)} * (2000 \text{ lbs/ ton)} * (1 \text{ yr/ } 8760 \text{ hr)} = 22.54 \text{ lbs/hr} \end{aligned}$$

Assuming the source operates at maximum capacity (60 tons of asphalt per hour) for 8760 hours per year, this emission limit is equivalent to 0.376 lbs PM-10 per ton of asphalt mix.

Because PM-10 emissions from the aggregate dryer are controlled to 4.74 tons/yr (1.08 lbs/hr), the source is able to comply with this limit when utilizing its control devices.

However, the source shall limit emissions of PM-10 to 1.5 lbs per ton of hot mix asphalt produced and limit production of hot mix asphalt to 100,000 tons per twelve (12) consecutive month period. Together these constraints, which were requested by the source, have the effect of limiting PM-10 emissions from the aggregate mixing and drying operations to 75 tons/yr.

****Unpaved Roads****

Not applicable: all of the roads at this plant are paved.

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****Hot Oil Heater****

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil at 0.49 % sulfur, from hot oil heating, based on 8760 hours of use and US EPA's AP 42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-3, and 1.3-7.

Criteria Pollutant	Emission Factor (Ef) (lbs/1000 gal)	Potential to Emit (tons/yr)
PM*	2.00	0.08
PM-10**	3.30	0.12
SO₂	69.58	2.61
NO_x	20.00	0.75
VOC	0.34	0.01
CO	5.00	0.19

*PM emission factor is filterable PM only.

**PM-10 emission factor is filterable and condensable PM-10 combined.

Methodology:

Heat Input Capacity = 1.2 MMBtu/hr

Heating Value = 140,000 Btu/gal

Potential to Emit (tons/yr) = 1.2 (MMBtu/hr) * (8760 hr/ 1 yr) * (1 gal/ 140,000 Btu) * (1 ton/ 2000 lbs) * Ef (lb/1000 gal)

****Aggregate Dryer/Burner****

The following calculations determine the amount of emissions created by the combustion of #2 off-road diesel fuel at 0.49 % sulfur, from hot oil heating, based on 8760 hours of use and US EPA's AP 42, 5th Edition, Section 1.3- Fuel Oil Combustion, Tables 1.3-1, 1.3-3, and 1.3-7. The emission factors for #2 fuel oil are used as a surrogate for off-road diesel fuel emission factors because of the fuels' similar characteristics.

Criteria Pollutant	Emission Factor (Ef) (lbs/1000 gal)	Potential to Emit (tons/yr)
PM*	2.00	1.69
PM-10**	3.30	2.79
SO₂	69.58	58.78
NO_x	20.00	16.89
VOC	0.34	0.29
CO	5.00	4.22

*PM emission factor is filterable PM only.

**PM-10 emission factor is filterable and condensable PM-10 combined.

Methodology:

Heat Input Capacity = 27 MMBtu/hr

Heating Value = 140,000 Btu/gal

Potential to Emit (tons/yr) = 27 (MMBtu/hr) * (8760 hr/ 1 yr) * (1 gal/ 140,000 Btu) * (1 ton/ 2000 lbs) * Ef (lb/1000 gal)

****Aggregate Drying: Batch-Mix Plant****

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8760 hours of use and US EPA's AP 42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-1 and 11.1-6 for a batch mix dryer which has the capability of combusting either fuel oil or natural gas.

Pollutant	Emission Factor (lbs/ton)	Potential to Emit (tons/yr)
PM	32	8,409.60
PM-10	4.5	1,182.60
VOC*	8.20E-03	2.15

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

Methodology:

Potential to Emit (tons/yr) = Ef (lb/ton) * 60 (ton/hr) * (8760 hr/ 1 yr) * (1 ton/ 2000 lbs)

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****Conveying/ Handling****

The following calculations determine the amount of emissions created by material handling, based on 8760 hours of operation and AP 42, Section 13.2.4, Equation 1.

$$\begin{aligned} \text{Emission Factor (Ef)} &= k * (0.0032) * (((U/5)^{1.3}) / ((M/2)^{1.4})) \\ &= 9.69E-04 \text{ lb PM-10/ton;} \\ &2.05E-03 \text{ lb PM/ton} \end{aligned}$$

where k = 0.35 (particle size multiplier for <10µm);
 0.74 (particle size multiplier for <30µm)
 U = 12 mean wind speed (mph)
 M = 5.0 material moisture content (%)

$$\text{Emissions (tons/yr)} = \text{Ef (lb/ton of material)} * 60 \text{ (tons/hr)} * (8760 \text{ hr/ 1 yr}) * (1 \text{ ton/ 2000 lbs})$$

PM Emissions = 0.54 tons/yr
PM-10 Emissions = 0.25 tons/yr

****Storage****

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use and US EPA's AP 42 (Pre-1983 Edition), Section 11.2.3.

$$\begin{aligned} \text{Ef} &= 1.7 * (s/1.5) * [(365-p) / 235] * (f/15) \\ &= 1.27 \text{ lbs/acre/day} \end{aligned}$$

where s = 1.1 wt % silt content
 p = 125 days per year with rainfall greater than or equal to 0.01 inches
 f = 15 % of wind greater than or equal to 12 mph

$$\text{PTE (tons/yr)} = \text{Ef} * \text{sc} * (20 \text{ cuft/ 1 ton}) * (365 \text{ day/ 1 yr}) * (1 \text{ ton/ 2000 lbs}) * (1 \text{ acre/ 43,560 sqft}) * (1/\text{height})$$

where sc (storage capacity) = 19,051 tons
 height (pile height) = 12 feet

PM Emissions = 0.17 tons/yr
PM-10 Emissions = 0.06 tons/yr (35% of PM)

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****HAPs: Aggregate Dryer/ Burner****

The table below indicates the HAPs emissions, both before and after controls, created by the aggregate dryer when combusting distillate fuel oil with a 0.49% sulfur content. Emissions were calculated based on 8760 hours of use and emission factors from US EPA's AP 42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-10.

	Emission Factor (Ef) (lb/10 ¹² Btu)	Potential to Emit (tons/yr)	Limited Emissions (tons/yr)
Arsenic	4	4.73E-04	1.89E-06
Beryllium	3	3.55E-04	1.42E-06
Cadmium	3	3.55E-04	1.42E-06
Chromium	3	3.55E-04	1.42E-06
Lead	9	1.06E-03	4.26E-06
Manganese	6	7.10E-04	2.84E-06
Mercury	3	3.55E-04	1.42E-06
Nickel	3	3.55E-04	1.42E-06
Total HAPs (tons/yr) =		4.02E-03	1.61E-05

Methodology:

Heat Input Capacity = 27 MMBtu/hr

Potential to Emit (tons/yr) = 27 (MMBtu/hr) * Ef (lbs/10¹² Btu) * (8760 hr/ 1 yr) * (1 ton/ 2000 lbs)

Limited Emissions (tons/yr) = PTE * 0.4% (emissions of PM and PM-10 from aggregate drying operations are controlled by both a wet scrubber and a cyclone, which together provide a 99.6% control efficiency)

**** HAPs: Aggregate Drying: Batch-mix Plant****

The table below indicates the HAPs emissions, both before and after controls, created by aggregate drying. Emissions were calculated based on 8760 hours of use; emission factors are from US EPA's AP 42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-9 for a batch mix dryer that can be fired with either fuel oil or natural gas.

	Emission Factor (Ef) (lbs/ton)	Potential to Emit (tons/yr)
Acetaldehyde	3.20E-04	0.084
Benzene	2.80E-04	0.074
Ethylbenzene	2.20E-03	0.578
Formaldehyde	7.40E-04	0.194
Quinone	2.70E-04	0.071
Toluene	1.00E-03	0.263
Xylene	2.70E-03	0.710
Total PAH/ POM*	2.30E-04	0.060
Total HAPs (tons/yr) =		2.034

* POM = Polycyclic Organic Matter

Methodology:

Throughput = 60 tons/hr

Potential to Emit (tons/yr) = 60 (tons/hr) * Ef (lbs/ton) * (8760 hr/ 1 yr) * (1 ton/ 2000 lbs)

Potential to Emit (tons/yr) = Limited Emissions (tons/yr)