INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 18, 2006

RE: Meshberger Brothers Stone Corporation / 135-22947-03158

FROM: Nisha Sizemore
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 03/23/06

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NEW SOURCE CONSTRUCTION AND FEDERALLY ENFORCEABLE STATE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

Meshberger Brothers Stone Corporation
1972 West State Road 28
Ridgeville, Indiana 47380

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

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F 135-22947-03158	
Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: December 18, 2006 Expiration Date: December 18, 2011

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary hot mix asphalt facility.

Authorized Individual:	W. Craig Coshow
Source Address:	1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address:	P.O. Box 345, Berne, Indiana 46711
General Source Phone Number:	(260) 334-5311
SIC Code:	3159
County Location:	Randolph
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

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 batch mixer, identified as EU#10, constructed in 2002, equipped with a cyclone and baghouse for particulate control and exhausted to Stack SV#1, capacity: 200 tons of asphalt per hour.

(b) One (1) aggregate dryer, identified as EU#4, equipped with a burner, identified as EU#5, constructed in 2002 and modified in 2006, firing natural gas, No. 2 fuel oil or waste oil, exhausting to Stack SV#1, rated at 85.0 million British thermal units per hour

(c) One (1) cold feed system consisting of cold feed bins and conveyors, constructed prior to 2002, capacity: 250 tons of asphalt per hour.

(d) One (1) hot storage bin and conveyor system, including two (2) hot asphalt storage bins, identified as EU#35 and EU#36, constructed in 1985, and one (1) hot asphalt storage bin identified as EU#12, constructed in 1996, capacity: 200 tons of asphalt per hour, total.

(e) One (1) storage tank, identified as EU#13, constructed in 1995, equipped with a natural gas or No. 2 oil-fired hot oil transfer heater, rated at 0.700 million British thermal units per hour, capacity: 30,000 gallons of liquid asphalt.

(f) One (1) storage tank, identified as EU#32, constructed in 1985, capacity: 8,000 gallons of No. 2 fuel oil.

(g) One (1) storage tank, identified as EU#34, constructed in 1985, capacity: 20,000 gallons of liquid asphalt.

(h) Cold-mix cutback asphalt production operations.

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

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

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour: One (1) natural gas or No. 2 oil-fired transfer heater associated with the slat conveyor and the batch plant, identified as EU#33, rated at 0.500 million British thermal units per hour.

(b) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight: One (1) natural gas or No. 2-oil fired transfer heater associated with the slat conveyor and the batch plant, identified as EU#33, rated at 0.500 million British thermal units per hour.

(c) Activities with emissions equal to or less than 5 pounds per hour or 25 pounds per day of Particulate Matter (PM): One (1) RAP system, including a feed bin, lump breaker and conveyor, constructed in 2006, capacity: 30 tons per hour. [40 CFR 60, Subpart OOO]

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, 135-22947-03158, 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
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(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
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 135-22947-03158 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

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

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

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

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

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

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

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

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

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

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

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

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

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

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

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

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

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:

(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

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

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

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

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

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

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

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

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

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

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 in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

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

(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 13-17-3-2] [IC13-30-3-1]

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

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

(b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

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

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

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

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

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

(c) The Permittee may implement notice-only changes addressed in the request for a notice-only change 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 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

(a) The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

(b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.25 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. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);

(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 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 Stack Height [326 IAC 1-7]

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

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

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

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

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

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

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

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

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

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

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

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

C.15 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.16 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.18 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.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

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

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

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit “calendar year” means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.20 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: Asphalt Production

(a) One (1) aggregate batch mixer, identified as EU#10, constructed in 2002, equipped with a cyclone and baghouse for particulate control and exhausted to Stack SV#1, capacity: 200 tons of asphalt per hour.

(b) One (1) aggregate dryer, identified as EU#4, equipped with a burner, identified as EU#5, constructed in 2002 and modified in 2006, firing natural gas, No. 2 fuel oil or waste oil, exhausting to Stack SV#1, rated at 85.0 million British thermal units per hour.

(c) One (1) cold feed system consisting of cold feed bins and conveyors, constructed prior to 2002, capacity: 250 tons of asphalt per hour.

(d) One (1) hot storage bin and conveyor system, including two (2) hot asphalt storage bins, identified as EU#35 and EU#36, constructed in 1985, and one (1) hot asphalt storage bin identified as EU#12, constructed in 1996, capacity: 200 tons of asphalt per hour, total.

(e) One (1) storage tank, identified as EU#13, constructed in 1995, equipped with a natural gas or No. 2 oil-fired hot oil transfer heater, rated at 0.700 million British thermal units per hour, capacity: 30,000 gallons of liquid asphalt.

(f) One (1) storage tank, identified as EU#32, constructed in 1985, capacity: 8,000 gallons of No. 2 fuel oil.

(g) One (1) storage tank, identified as EU#34, constructed in 1985, capacity: 20,000 gallons of liquid asphalt.

(h) Cold-mix cutback asphalt production operations.

(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 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 2-3] [326 IAC 2-8-4]

The cutback asphalt rapid cure liquid binder usage shall not exceed 102.3 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month, equivalent to VOC emissions of 97.2 tons per year.

Liquid binders used in the production of cold mix asphalt shall be defined as follows:

(a) Cut back asphalt rapid cure, containing a maximum of 35.0% of the liquid binder by weight of VOC (solvent) and 95% by weight of VOC (solvent) evaporating.

(b) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC (solvent) and 70% by weight of VOC (solvent) evaporating.

(c) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC (solvent) and 25% by weight of VOC (solvent) evaporating.

(d) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC (solvent) in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume.

(e) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC (solvent) and 2.5% by weight of the VOC (solvent) evaporating.

In order to demonstrate compliance based on VOC emissions, each ton of VOC solvent used for cut back asphalt medium cure shall be equivalent to 0.737 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for cut back asphalt slow cure shall be equivalent to 0.263 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for emulsified asphalt with solvent shall be equivalent to 0.488 tons of cutback asphalt rapid cure liquid binder usage, and each ton of VOC solvent used for other asphalt with solvent binder shall be equivalent to 0.0263 tons of cutback asphalt rapid cure liquid binder usage.

D.1.3 Sulfur Dioxide (SO_2) [326 IAC 2-2] [326 IAC 2-8-4] [326 IAC 7-1.1] [326 IAC 7-4-1.1]

(a) The input of No. 2 fuel oil to the aggregate dryer burner shall be limited to less than 2,735,211 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. This will limit SO_2 emissions to less than 97.1 tons per year.

(b) For purposes of determining compliance based on SO_2 emissions, each gallon of waste oil shall be equivalent to 1.507 gallons of No. 2 fuel oil.

(c) Pursuant to 326 IAC 7-1.1-2, the SO_2 emissions from the aggregate dryer burner shall not exceed 1.6 pounds per million British thermal unit heat input when operating on waste oil, equivalent to a sulfur content of one percent (1.0%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

(d) Pursuant to 326 IAC 7-1.1-2, the SO_2 emissions from the aggregate dryer burner shall not exceed five tenths (0.5) pounds per million British thermal unit heat input when operating on No. 2 fuel oil, equivalent to a sulfur content of five tenth percent (0.5%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

Compliance with the above limitations will ensure that the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (PSD) do not apply.

D.1.4 Particulate (PM and PM_{10}) [326 IAC 2-8-4] [326 IAC 2-2]

(a) The PM emissions from the dryer/mixer shall be limited to less than 35.7 pounds per hour, equivalent to 156.4 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

(b) The PM_{10} emissions from the dryer/mixer shall be limited to less than 18.95 pounds per hour, equivalent to 83.0 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (PSD) do not apply.

D.1.5 Carbon Monoxide (CO) [326 IAC 2-8-4] [326 IAC 2-2]

The source shall produce less than 497,750 tons of hot-mix asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month. CO emissions from the aggregate dryer/mixer shall not exceed 0.4 pounds per ton of asphalt produced. Compliance with these limits will result in CO emissions from the aggregate dryer/mixer less than 99.55 tons per year, and will render the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) not applicable.

D.1.6 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.90]

Pursuant to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), no owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

(a) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot.

(b) Exhibit twenty (20%) percent opacity, or greater.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 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:

(a) penetrating prime coating

(b) stockpile storage

(c) application during the months of November, December, January, February, and March

D.1.8 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 the aggregate mixer/dryer and any control devices.

Compliance Determination Requirements

D.1.9 Particulate Control

(a) In order to comply with Conditions D.1.4 and D.1.6, the baghouse and cyclone for particulate control shall be in operation and control emissions from the aggregate batch mixer and/or aggregate dryer burner at all times that the aggregate batch mixer and/or aggregate dryer burner are in operation.

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

D.1.10 Testing Requirements [326 IAC 2-8-5(1)]

Pursuant to FESOP F 135-14643-03158, issued on January 24, 2002, in order to demonstrate compliance with Conditions D.1.4 and D.1.6, the Permittee shall perform PM and PM_{10} testing for the aggregate mixer/dryer no later than November 14, 2008, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensable PM_{10}. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.11 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 compliance with the sulfur content limitations contained in Condition D.1.3 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 85 million British thermal units per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

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

D.1.12 Visible Emissions Notations

(a) Visible emission notations of the conveyers, material transfer points, and the aggregate dryer/burner stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

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

D.1.13 Baghouse Parametric Monitoring

(a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate mixer/dryer at least once per day when the aggregate mixer/dryer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

(b) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be cali-

brated at least once every six (6) months.

D.1.14 Broken or Failed Bag Detection

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

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

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

D.1.15 Cyclone Failure Detection

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

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

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

D.1.16 Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain monthly records at the source of the following values:

(1) Tons of VOC solvent used in the production of each type of cutback asphalt; and

(2) Equivalent cutback asphalt rapid cure liquid binder usage.

(b) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the fuel usage limits established in Condition D.1.3. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

(1) Calendar dates covered in the compliance determination period;

(2) Actual usage of No. 2 fuel oil and waste oil used since last compliance determination period and equivalent SO_2 emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel oil combusted during the period; and

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

(4) Fuel supplier certifications;

(5) The name of the fuel supplier; and

(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

(c) To document compliance with Condition D.1.5, the Permittee shall maintain monthly records of the amount of hot mix asphalt produced.

(d) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the conveyers, material transfer points, and the aggregate dryer/ burner stack exhaust once per day.

(e) To document compliance with Condition D.1.13, the Permittee shall maintain records once per day of the pressure drop during normal operation.

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

D.1.17 NSPS Reporting Requirement

Pursuant to the New Source Performance Standards (NSPS), Part 60. 60.90, Subpart I, the Permittee is hereby advised of the requirement to report the following at the appropriate time:

Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit.

Reports are to be sent to:

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

D.1.18 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2, D.1.3 and D.1.5 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

Activities with emissions equal to or less than 5 pounds per hour or 25 pounds per day of Particulate Matter (PM): One (1) RAP system, including a feed bin, lump breaker and conveyor, constructed in 2006, capacity: 30 tons per hour. [40 CFR 60, Subpart OOO]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

D.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the one (1) RAP system except as otherwise specified in 40 CFR Part 60, Subpart OOO.

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

D.2.2 Nonmetallic Mineral Processing Plants Requirements [40 CFR Part 60, Subpart OOO] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart OOO, the Permittee shall comply with the provisions of the Standards of Performance for Nonmetallic Mineral Processing Plants, which are incorporated by reference as 326 IAC 12 for the one (1) RAP system as specified as follows:

§ 60.670 Applicability and designation of affected facility.

(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

Table 1 - Applicability of Subpart A to Subpart OOO

Subpart A reference	Applies to Subpart OOO	Comment
60.1, Applicability	Yes	
60.2, Definitions	Yes	
60.3, Units and abbreviations	Yes	
60.4, Address:		
(a)	Yes	
(b)	Yes	
60.5, Determination of construction or modification.	Yes	

60.6, Review of plans	Yes	
60.7, Notification and recordkeeping	Yes	Except in (a)(2) report of anticipated date of initial startup is not required (§ 60.676(h)).
60.8, Performance tests	Yes	Except in (d), after 30 days notice for an initially scheduled performance test, any rescheduled performance test requires 7 days notice, not 30 days (§ 60.675(g)).
60.9, Availability of information	Yes	
60.10, State authority	Yes	
60.11, Compliance with standards and maintenance requirements.	Yes	Except in (b) under certain conditions (§§ 60.675 (c)(3) and (c)(4)), Method 9 observation may be reduced from 3 hours to 1 hour. Some affected facilities exempted from Method 9 tests (§ 60.675(h)).
60.12, Circumvention	Yes	
60.13, Monitoring requirements	Yes	
60.14, Modification	Yes	
60.15, Reconstruction	Yes	
60.16, Priority list	Yes	
60.17, Incorporations by reference	Yes	
60.18, General control device	No	Flares will not be used to comply with the emission limits.
60.19, General notification and reporting requirements.	Yes	

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more process operations to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more process operations at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in §60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(b) Sand and Gravel.

(c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(d) Rock Salt.

(e) Gypsum.

(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

(g) Pumice.

(h) Gilsonite.

(i) Talc and Pyrophyllite.

(j) Boron, including Borax, Kernite, and Colemanite.

(k) Barite.

(l) Fluorospar.

(m) Feldspar.

(n) Diatomite.

(o) Perlite.

(p) Vermiculite.

(q) Mica.

(r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in §60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) or nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by a washing process which is designed and operated at all times such that the product is saturated with water.

§ 60.672 Standard for particulate matter.

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

§ 60.673 Reconstruction.

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the “fixed capital cost of the new components” or the “fixed capital cost that would be required to construct a comparable new facility” under §60.15. Ore-contact surfaces are crushing surfaces;

screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under §60.15, the “fixed capital cost of the new components” includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

§ 60.675 Test methods and procedures.

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

(c)(1) In determining compliance with the particulate matter standards in §60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).

(h) The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158

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

Please check what document is being certified:

☐ Annual Compliance Certification Letter

☐ Test Result (specify) _____

☐ Report (specify) _____

☐ Notification (specify) _____

☐ Affidavit (specify) _____

☐ Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Signature:
Printed Name:
Title/Position:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204
Phone: 317-233-0178
Fax: 317-233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158

This form consists of 2 pages **Page 1 of 2**

☐ This is an emergency as defined in 326 IAC 2-7-1(12)

- The Permittee must notify the Office of Air Quality (OAQ), within four (**4**) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

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

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

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158
Facility: Aggregate dryer burner (EU#5)
Parameter: Gallons of No. 2 fuel oil or equivalent
Limit: Less than 2,735,211 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. In order to demonstrate compliance based on SO_2 emissions, each gallon of waste oil shall be equivalent to 1.507 gallons of No. 2 fuel oil.

YEAR:_____

Month	No. 2 fuel oil or equivalent (gallons)	No. 2 fuel oil or equivalent (gallons)	No. 2 fuel oil or equivalent (gallons)
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158
Facility: Cutback asphalt production
Parameter: Rapid cure VOC solvent usage or equivalent
Limit: Less than 102.3 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month, equivalent to VOC emissions of 97.2 tons per year. In order to demonstrate compliance based on VOC emissions, each ton of VOC solvent used for cut back asphalt medium cure shall be equivalent to 0.737 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for cut back asphalt slow cure shall be equivalent to 0.263 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for emulsified asphalt with solvent shall be equivalent to 0.488 tons of cutback asphalt rapid cure liquid binder usage, and each ton of VOC solvent used for other asphalt with solvent binder shall be equivalent to 0.0263 tons of cutback asphalt rapid cure liquid binder usage.

YEAR:_____

Month	Rapid cure VOC solvent usage or equivalent (tons)	Rapid cure VOC solvent usage or equivalent (tons)	Rapid cure VOC solvent usage or equivalent (tons)
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
Deviation has been reported on _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158
Facility: Entire source
Parameter: Tons of hot mix asphalt produced
Limit: Less than 497,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:_____

Month	Hot mix asphalt produced (tons)	Hot mix asphalt produced (tons)	Hot mix asphalt produced (tons)
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
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: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

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

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

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

Page 2 of 2

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: _____

A certification is not required for this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Name:	**Meshberger Brothers Stone Corporation**
Source Location:	**1972 West State Road 28, Ridgeville, Indiana 47380**
County:	**Randolph**
FESOP:	**F 135-22947-03158**
SIC Code:	**3159**
Permit Reviewer:	**Edward A. Longenberger**

On November 4, 2006, the Office of Air Quality (OAQ) had a notice published in the News Gazette in Winchester, Indiana, stating that Meshberger Brothers Stone Corporation had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to continue to operate a stationary hot mix asphalt facility with a baghouse for particulate control. The notice also stated that OAQ proposed to issue a FESOP Renewal for this operation and provided information on how the public could review the proposed FESOP Renewal and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP Renewal should be issued as proposed.

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

Change 1:

The potential emissions from the aggregate dryer combustion at this hot mix asphalt plant were calculated using emission factors in AP-42 Chapter 1 (External Combustion Sources). Chapter 11.1 of AP-42 contains emission factors for hot mix asphalt plants, including combustion emissions from the aggregate dryer, based on the amount of asphalt produced. For carbon monoxide (CO), the emissions predicted by the emission factors in Chapter 11.1 are higher than those predicted by Chapter 1. IDEM, OAQ must consider the worst case when estimating emissions.

Therefore, in order to ensure that CO emissions are limited to less than one hundred (100) tons per year, an annual asphalt production limit of 497,750 tons per year has been added to the permit. This condition also limits CO emissions from the aggregate dryer/mixer to less than 0.4 pounds per ton of asphalt produced:

497,750 (tons asphalt / yr) x 0.4 (pounds CO emitted / ton asphalt) x (1 ton / 2000 lbs) = 99.55 tons of CO emitted per year

These limitations, along with the existing fuel limitations already in the FESOP Renewal permit, will ensure that this hot mix asphalt plant is not subject to the requirements of 326 IAC 2-7 (Part 70).

The CO limit has been added to the permit as Condition D.1.5. The subsequent conditions have been re-numbered accordingly. Record keeping and reporting requirements have been added to Conditions D.1.15 and D.1.17 (now D.1.16 and D.1.18). A quarterly report form has been included in the permit. The changes are as follows:

D.1.5 Carbon Monoxide (CO) [326 IAC 2-8-4] [326 IAC 2-2]

The source shall produce less than 497,750 tons of hot-mix asphalt per twelve (12) consecutive month period, with compliance determined at the end of each month. CO emissions from the aggregate dryer/mixer shall not exceed 0.4 pounds per ton of asphalt produced. Compliance with these limits will result in CO emissions from the aggregate dryer/mixer less than 99.55 tons per year, and will render the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD)

not applicable.

~~D.1.8~~**D.1.9** Particulate Control

(a) In order to comply with Conditions D.1.4 and ~~D.1.5~~**D.1.6**, the baghouse and cyclone for particulate control shall be in operation and control emissions from the aggregate batch mixer and/or aggregate dryer burner at all times that the aggregate batch mixer and/or aggregate dryer burner are in operation.

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

~~D.1.9~~**D.1.10** Testing Requirements [326 IAC 2-8-5(1)]

Pursuant to FESOP F 135-14643-03158, issued on January 24, 2002, in order to demonstrate compliance with Conditions D.1.4 and ~~D.1.5~~**D.1.6**, the Permittee shall perform PM and PM_{10} testing for the aggregate mixer/dryer no later than November 14, 2008, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensable PM_{10}. Testing shall be conducted in accordance with Section C- Performance Testing.

~~D.1.15~~**D.1.16** Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain monthly records at the source of the following values:

(1) Tons of VOC solvent used in the production of each type of cutback asphalt; and

(2) Equivalent cutback asphalt rapid cure liquid binder usage.

(b) To document compliance with Condition D.1.3, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the fuel usage limits established in Condition D.1.3. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.

(1) Calendar dates covered in the compliance determination period;

(2) Actual usage of No. 2 fuel oil and waste oil used since last compliance determination period and equivalent SO_2 emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel oil combusted during the period; and

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

(4) Fuel supplier certifications;

(5) The name of the fuel supplier; and

(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

(c) To document compliance with Condition D.1.5, the Permittee shall maintain monthly records of the amount of hot mix asphalt produced.

(d) To document compliance with Condition ~~D.1.11~~**D.1.12**, the Permittee shall maintain records of visible emission notations of the conveyers, material transfer points, and the aggregate dryer/ burner stack exhaust once per day.

(e) To document compliance with Condition ~~D.1.12~~**D.1.13**, the Permittee shall maintain records once per day of the pressure drop during normal operation.

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

~~D.1.17~~**D.1.18** Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.2**,** ~~and~~ D.1.3 **and D.1.5** shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The reports submitted by the Permittee do 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
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 1972 West State Road 28, Ridgeville, Indiana 47380
Mailing Address: P.O. Box 345, Berne, Indiana 46711
FESOP No.: F 135-22947-03158
Facility: Entire source
Parameter: Tons of hot mix asphalt produced
Limit: Less than 497,750 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:_____

Month	Hot mix asphalt produced (tons)	Hot mix asphalt produced (tons)	Hot mix asphalt produced (tons)
	This Month	Previous 11 Months	12 Month Total

☐ No deviation occurred in this month.

☐ Deviation/s occurred in this month.
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

Technical Support Document (TSD) for New Source Construction and a Federally Enforceable State Operating Permit (FESOP) Renewal

Source Background and Description

Source Name:	**Meshberger Brothers Stone Corporation**
Source Location:	**1972 West State Road 28, Ridgeville, Indiana 47380**
County:	**Randolph**
SIC Code:	**3159**
Operation Permit No.:	**F 135-14643-03158**
Operation Permit Issuance Date:	**January 24, 2002**
Permit Renewal No.:	**F 135-22947-03158**
Permit Reviewer:	**Edward A. Longenberger**

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Meshberger Brothers Stone Corporation relating to the operation of a stationary hot mix asphalt facility. As part of this application, the source has requested to add waste oil as backup fuel for the aggregate dryer burner (EU#5).

Permitted Emission Units and Pollution Control Equipment

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

(a) One (1) aggregate batch mixer, identified as EU#10, constructed in 2002, equipped with a cyclone and baghouse for particulate control and exhausted to Stack SV#1, capacity: 200 tons of asphalt per hour.

(b) One (1) aggregate dryer, identified as EU#4, equipped with a burner, identified as EU#5, constructed in 2002 and modified in 2006, firing natural gas, No. 2 fuel oil or waste oil, exhausting to Stack SV#1, rated at 85.0 million British thermal units per hour.

(c) One (1) cold feed system consisting of cold feed bins and conveyors, constructed prior to 2002, capacity: 250 tons of asphalt per hour.

(d) One (1) hot storage bin and conveyor system, including two (2) hot asphalt storage bins, identified as EU#35 and EU#36, constructed in 1985, and one (1) hot asphalt storage bin identified as EU#12, constructed in 1996, capacity: 200 tons of asphalt per hour, total.

(e) One (1) storage tank, identified as EU#13, constructed in 1995, equipped with a natural gas or No. 2 oil-fired hot oil transfer heater, rated at 0.700 million British thermal units per hour, capacity: 30,000 gallons of liquid asphalt.

(f) One (1) storage tank, identified as EU#32, constructed in 1985, capacity: 8,000 gallons of No. 2 fuel oil.

(g) One (1) storage tank, identified as EU#34, constructed in 1985, capacity: 20,000 gallons of liquid asphalt.

(h) Cold-mix cutback asphalt production operations.

Insignificant Activities

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

(a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour: One (1) natural gas or No. 2 oil-fired transfer heater associated with the slat conveyor and the batch plant, identified as EU#33, rated at 0.500 million British thermal units per hour.

(b) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight: One (1) natural gas or No. 2 oil-fired transfer heater associated with the slat conveyor and the batch plant, identified as EU#33, rated at 0.500 million British thermal units per hour.

(c) Activities with emissions equal to or less than 5 pounds per hour or 25 pounds per day of Particulate Matter (PM): One (1) RAP system, including a feed bin, lump breaker and conveyor, constructed in 2006, capacity: 30 tons per hour. [40 CFR 60, Subpart OOO]

Existing Approvals

The source has been operating under the previous FESOP 135-14643-03158, issued on January 24, 2002, and the following amendments and revisions:

AAF 135-15960-03158, issued on August 19, 2002.

All terms and conditions from previous approvals were either incorporated as originally stated, revised or deleted by this FESOP. The following terms and conditions have been deleted or revised:

(a) FESOP 135-14643-03158, issued on January 24, 2002

Condition D.1.3, which limited particulate emissions from the aggregate dryer/burner to less than 58.5 pounds per hour.

Reason deleted: It has been determined that the particulate limit of 0.04 grains per dry standard cubic foot prescribed by 40 CFR 60, Subpart I is more stringent than the limit prescribed by 326 IAC 6-3. Therefore, pursuant to 326 IAC 6-3-1(c), the requirements of 326 IAC 6-3-2 shall not apply.

(b) FESOP 135-14643-03158, issued on January 24, 2002

Condition D.1.4, which limited PM_{10} emissions to less than 19.6 pounds per hour equivalent to 85.9 tons per consecutive twelve (12) month period.

Reason revised: The limit has been changed to 18.95 pounds per hour, equivalent to 83.0 tons per twelve (12) consecutive month period, to allow for the additional potential particulate emissions from the insignificant RAP system.

(c) FESOP 135-14643-03158, issued on January 24, 2002

Condition D.1.6, which limited VOC emissions from cutback asphalt production to less than 97.9 tons per year.

Reason revised: The VOC limit for the cutback asphalt production has been reduced to allow for the increased potential VOC emissions from the combustion of waste oil. VOC emissions from cutback asphalt production will be limited to 97.2 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on April 12, 2006. Additional information was received on May 4, 2006 and July 31, 2006.

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

Emission Calculations

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

Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	28,313
PM_{10}	4,079
SO_2	293
VOC	2.735
CO	31.7
NO_x	53.2

HAPs	Unrestricted Potential Emissions (tons/yr)
Total HAPs*	6.66

* HAPs include benzene, ethyl benzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene, arsenic, cadmium, chromium, manganese, mercury and nickel compounds. No single HAP exceeds a potential to emit of greater than ten (10) tons per year.

The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM_{10} and SO_2 are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP Renewal because the source will continue to limit its emissions below the Title V levels.

Potential to Emit After Issuance

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

	Potential To Emit (tons/year)						
Process/emission unit	**PM**	**PM_{10}**	**SO_2**	**VOC**	**CO**	**NO_x**	**HAPs**
Dryer Mixer including Burner (worst case)	Less than 156.4	Less than 83.0	Less than 97.1	2.74	31.3	53.2	6.66
Hot Oil and Transfer Heaters (worst case)	0.074	0.122	2.63	0.029	0.442	0.741	neg.
Conveying/Handling	2.30	0.230	-	-	-	-	-
Screening	26.2	2.62	-	-	-	-	-
Storage Piles	0.005	0.002	-	-	-	-	-
Cutback Asphalt	-	-	-	Less than 97.2	-	-	-
Roads	63.9	13.5	-	-	-	-	-
Insignificant RAP System	1.05	0.499	-	-	-	-	-
Total Emissions	Less than 250	Less than 100	Less than 100	Less than 100	31.7	53.9	6.66

County Attainment Status

The source is located in Randolph County.

Pollutant	Status
$PM_{2.5}$	Attainment
PM_{10}	Attainment
SO_2	Attainment
NO_2	Attainment
8-Hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) On August 7, 2006, a temporary emergency rule took effect which revoked the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule. Therefore, only the 8-hour ozone standard is considered in this operating permit.

Volatile organic compounds (VOC) and nitrogen oxides (NO_X) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_X emissions are considered when evaluating the rule applicability relating to ozone. Randolph County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_X emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.

(b) Randolph County has been classified as unclassifiable or 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 PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions. See the State Rule Applicability - Entire Source section of this document.

(c) Randolph County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.

(d) Fugitive Emissions
Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980 (40 CFR 60, Subpart I). Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Source Status

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

Pollutant	**Emissions (tons/yr)**
PM	98.2
PM_{10}	28.2
SO_2	Less than 100
VOC	Less than 100
CO	31.7
NO_x	53.7
Single HAP	Less than 10
Combination HAPs	Less than 25

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

(b) This information is from the Technical Support Document for FESOP 135-14643-03158.

Federal Rule Applicability

(a) This hot mix batch asphalt facility is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I). No owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

(1) contain particulate matter in excess of 0.04 grains per dry standard cubic foot,

(2) exhibit 20 percent opacity, or greater.

(b) The requirements of NSPS, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) are not included in the permit for the asphalt storage tanks, EU#13 and EU#34, with capacities of 30,000 gallons (136.4 cubic meters) and 20,000 gallons (90.9 cubic meters), respectively. The tanks have capacities between 75 and 151 cubic meters, and the materials stored in these tanks have vapor pressures less than 15.0 kiloPascals.

(c) The requirements of NSPS, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) are not included in the permit for the No. 2 fuel oil storage tank, identified as EU#32, since the tank has a capacity of 8,000 gallons, which is less than 75 cubic meters.

(d) The recycled asphalt pavement (RAP) system is subject to the New Source Performance Standard, 40 CFR 60, Subpart OOO, which is incorporated by reference as 326 IAC 12.

Pursuant to 40 CFR 60.670, the affected source that is subject to the requirements of 40 CFR 60, Subpart OOO consists of crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin. The specific facilities include the following:

One (1) RAP system, including a feed bin, lump breaker and conveyor.

The emissions from the RAP system are fugitive particulate emissions, and the RAP system is not equipped with an add-on control device.

Nonapplicable portions of the NSPS will not be included in the permit. The affected source is subject to the following portions of 40 CFR 60, Subpart OOO:

(1) 40 CFR 60.670(a)(1), (e) and (f)
(2) Table 1
(3) 40 CFR 60.671
(4) 40 CFR 60.672(b), (c) and (d)
(5) 40 CFR 60.673
(6) 40 CFR 60.675(a), (c)(1), (3) and (4), (e) and (g)
(7) 40 CFR 60.676(a), (f), (h), (i), (j)

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

(e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 326 IAC 20, 40 CFR 61 and 40 CFR Part 63) included in this permit.

State Rule Applicability – Entire Source

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

This source was constructed in 2002. The unrestricted potential to emit of VOC, NO_X and CO is less than two hundred-fifty (250) tons per year. The PM_{10} and SO_2 emissions are limited to less than one hundred (100) tons per year, in order to comply with 326 IAC 2-8.

In order to limit PM emissions from this source to less than two hundred-fifty (250) tons per year, the PM emissions from the dryer/mixer shall be limited to less than 35.7 pounds per hour, equivalent to 156.4 tons per twelve (12) consecutive month period.

Therefore, this source, which is not one of the twenty-eight (28) listed source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

326 IAC 2-6 (Emission Reporting)

This source is not located in Lake or Porter County, does not emit five (5) tons per year or more of lead and does not require a Part 70 Operating Permit. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4 (FESOP)

(a) The PM_{10} emissions from the dryer/mixer shall be limited to less than 18.95 pounds per hour, equivalent to 83.0 tons per year. This will ensure that the PM_{10} emissions from the entire source are less than one hundred (100) tons per year.

(b) The amount of No. 2 fuel oil burned in the dryer will be limited to 2,735,211 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month, equivalent to SO_2 emissions of less than 97.1 tons per year. This will ensure that the SO_2 emissions from the entire source are less than one hundred (100) tons per year. The limit of 97.1 tons per year takes into account the potential SO_2 emissions of 0.223 from burning natural gas in the dryer burner, and the worst case SO_2 emissions from the hot oil heater and the transfer heater (2.63 tons per year), making a natural gas equivalency unnecessary.

In order to demonstrate compliance based on SO_2 emissions, each gallon of waste oil shall be equivalent to 1.507 gallons of No. 2 fuel oil.

(c) The cutback asphalt rapid cure liquid binder usage shall not exceed 102.3 tons of VOC solvent per twelve (12) consecutive month period, with compliance determined at the end of each month, equivalent to VOC emissions of 97.2 tons per year.

Liquid binders used in the production of cold mix asphalt shall be defined as follows:

(1) <u>Cut back asphalt rapid cure</u>, containing a maximum of 35.0% of the liquid binder by weight of VOC (solvent) and 95% by weight of VOC (solvent) evaporating.

(2) <u>Cut back asphalt medium cure</u>, containing a maximum of 28.6% of the liquid binder by weight of VOC (solvent) and 70% by weight of VOC (solvent) evaporating.

(3) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC (solvent) and 25% by weight of VOC (solvent) evaporating.

(4) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC (solvent) in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume.

(5) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC (solvent) and 2.5% by weight of the VOC (solvent) evaporating.

In order to demonstrate compliance based on VOC emissions, each ton of VOC solvent used for cut back asphalt medium cure shall be equivalent to 0.737 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for cut back asphalt slow cure shall be equivalent to 0.263 tons of cutback asphalt rapid cure liquid binder usage, each ton of VOC solvent used for emulsified asphalt with solvent shall be equivalent to 0.488 tons of cutback asphalt rapid cure liquid binder usage, and each ton of VOC solvent used for other asphalt with solvent binder shall be equivalent to 0.0263 tons of cutback asphalt rapid cure liquid binder usage.

(d) The potential to emit NO_X from the entire source is 53.7 tons per year; therefore, a natural gas usage limit is not necessary.

Compliance with these limits will ensure that the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (PSD) 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.

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 particulate emission rate from the batch mixer exhausted through Stack SV#1 shall not exceed 58.5 pounds per hour when operating at a process weight rate of 200 tons per hour.

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

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

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

Pursuant to 326 IAC 6-3-1(c), this rule shall not apply if a particulate matter limitation established in 326 IAC 12 (NSPS) is more stringent than the particulate limitation established in this rule. Since the particulate emission limitation pursuant to NSPS Subpart I of 0.04 grains per dry standard cubic feet is more stringent, the requirements of 326 IAC 6-3 shall not apply.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

This rule requires levels of sulfur dioxide emissions from the combustion of No. 2 distillate fuel oil not to exceed 0.5 pounds per million British thermal units of heat input (the equivalent of 0.5% sulfur content at a higher heating value of 0.140 MMBtu/gal and a maximum heat input rate of 85 million British thermal units per hour).

This rule also requires levels of sulfur dioxide emissions from the combustion of residual waste oil not to exceed 1.6 pounds per million British thermal units of heat input (the equivalent of 1.02% sulfur content at a higher heating value of 0.136 MMBtu/gal and a maximum heat input rate of 85 million British thermal units per hour).

326 IAC 7-2-1 (Sulfur Dioxide Compliance: reporting and methods to determine compliance)

Reports of calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate shall be provided upon request to the Office of Air Quality.

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

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

(a) penetrating prime coating,

(b) stockpile storage, and

(c) application during the months of November, December, January, February and March.

State Rule Applicability – Insignificant Activities

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

The one (1) RAP system is exempt from the requirements of 326 IAC 6-3-2 because the potential particulate emissions of 0.240 pounds per hour are less than 0.551 pounds per hour.

Testing Requirements

In accordance with Condition D.1.10 of FESOP 135-14643-03158, stack tests were performed on Stack SV#1 on November 10 and 14, 2003. Those tests showed that the asphalt facility is in compliance with the requirements of 40 CFR 60 (NSPS Subpart I) and 326 IAC 2-8. This test shall be repeated no later than November 14, 2008, which is five (5) years after this compliant stack test.

Compliance Requirements

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

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

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

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

(a) Visible emission notations of the conveyers, material transfer points, and the aggregate dryer/burner stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal. 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

(b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate mixer/dryer at least once per day when the aggregate mixer/dryer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

(c) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the

event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

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

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

These monitoring conditions are necessary because the baghouse and cyclone for the aggregate mixer/dryer must operate properly to ensure compliance with 40 CFR 60 (NSPS Subpart I) and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this hot mix asphalt facility shall be subject to the conditions of the FESOP 135-22947-03158.

Appendix A: Emission Calculations

Company Name: Meshberger Brothers Stone Corporation
Plant Location: 1972 West State Road 28, Ridgeville, Indiana 47380
County: Randolph
FESOP: 135-22947-03158
Plt. ID: 135-03158
Application Date: April 12, 2006
Permit Reviewer: Edward A. Longenberger

I. Potential Emissions

A. Source emissions before controls

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

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

Pollutant: **1.200** MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
141800.0 Btu/gal * 2000 lbs/ton

P M:	2.0	lbs/1000 gal =	**0.074**	tons/yr
PM-10	3.3	lbs/1000 gal =	**0.122**	tons/yr
S O x:	71.0	lbs/1000 gal =	**2.632**	tons/yr
N O x:	20.0	lbs/1000 gal =	**0.741**	tons/yr
V O C:	0.34	lbs/1000 gal =	**0.013**	tons/yr
C O:	5.0	lbs/1000 gal =	**0.185**	tons/yr

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

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

Pollutant: **1.200** MMBtu/hr * 8760 hrs/yr * Ef (lbs/MMcf) = (tons/yr)
1000 Btu/cf * 2000 lbs/ton

P M:	1.9	lbs/MMcf =	**0.010**	tons/yr
P M-10:	7.6	lbs/MMcf =	**0.040**	tons/yr
S O x:	0.6	lbs/MMcf =	**0.003**	tons/yr
N O x:	100.0	lbs/MMcf =	**0.526**	tons/yr
V O C:	5.5	lbs/MMcf =	**0.029**	tons/yr
C O:	84.0	lbs/MMcf =	**0.442**	tons/yr

Dryer Burner **(gas/<100MMBTU/uncontrolled)**

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

Pollutant: **85.000** MMBtu/hr * 8760 hrs/yr * Ef (lbs/MMcf) = (tons/yr)
1000 Btu/cf * 2000 lbs/ton

P M:	1.9	lbs/MMcf =	**0.7074**	tons/yr
P M-10:	7.6	lbs/MMcf =	**2.829**	tons/yr
S O x:	0.6	lbs/MMcf =	**0.223**	tons/yr
N O x:	100.0	lbs/MMcf =	**37.2300**	tons/yr
V O C:	5.5	lbs/MMcf =	**2.048**	tons/yr
C O:	84.0	lbs/MMcf =	**31.273**	tons/yr

Dryer Burner (gas/>100MMBTU/uncontrolled)

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

Pollutant: MMBtu/hr * 8760 hrs/yr * Ef (lbs/MMcf) (tons/yr)
1000 Btu/cf * 2000 lbs/ton

P M:	lbs/MMcf =		tons/yr
P M-10:	lbs/MMcf =		tons/yr
S O x:	lbs/MMcf =		tons/yr
N O x:	lbs/MMcf =		tons/yr
V O C:	lbs/MMcf =		tons/yr
C O:	lbs/MMcf =		tons/yr

Dryer Burner (gas/>100MMBTU/low nox)

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

Pollutant: MMBtu/hr * 8760 hrs/yr * Ef (lbs/MMcf) (tons/yr)
1000 Btu/cf * 2000 lbs/ton

P M:	lbs/MMcf =		tons/yr
P M-10:	lbs/MMcf =		tons/yr
S O x:	lbs/MMcf =		tons/yr
N O x:	lbs/MMcf =		tons/yr
V O C:	lbs/MMcf =		tons/yr
C O:	lb/MMcf =		tons/yr

Dryer Burner (#2 oil)

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

Pollutant: **85.0** MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
140000.0 Btu/gal * 2000 lbs/ton

P M:	2.0	lbs/1000 gal =	**5.319**	tons/yr
PM-10:	3.3	lbs/1000 gal =	**8.776**	tons/yr
S O x:	71.0	lbs/1000 gal =	**188.809**	tons/yr
N O x:	20.0	lbs/1000 gal =	**53.186**	tons/yr
V O C:	0.34	lbs/1000 gal =	**0.904**	tons/yr
C O:	5.0	lbs/1000 gal =	**13.296**	tons/yr

Dryer Burner (#4 oil/ <100MMBTU)

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

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

P M:	lbs/1000 gal =		tons/yr
PM-10:	lbs/1000 gal =		tons/yr
S O x:	lbs/1000 gal =		tons/yr
N O x:	lbs/1000 gal =		tons/yr
V O C:	lbs/1000 gal =		tons/yr
C O:	lbs/1000 gal =		tons/yr

Dryer Burner (#4 oil/ >100MMBTU)

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

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

P M:	lbs/1000 gal =	_____	tons/yr
PM-10:	lbs/1000 gal =	_____	tons/yr
S O x:	lbs/1000 gal =	_____	tons/yr
N O x:	lbs/1000 gal =	_____	tons/yr
V O C:	lbs/1000 gal =	_____	tons/yr
C O:	lbs/1000 gal =	_____	tons/yr

Dryer Burner (waste oil/ vaporizing burner)

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

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

P M:	_____	lbs/1000 gal =	_____	tons/yr
P M-10:	_____	lbs/1000 gal =	_____	tons/yr
S O x:		lbs/1000 gal =	_____	tons/yr
N O x:		lbs/1000 gal =	_____	tons/yr
VOC		lbs/1000 gal =	_____	tons/yr
C O:		lbs/1000 gal =	_____	tons/yr
Pb:		lbs/1000 gal =	_____	tons/yr

Dryer Burner (waste oil/atomizing burner)

The following calculations determine the amount of emissions created by waste 0.690 **% Ash**
fuel oil @ **1.000** % sulfur, based on 8760 hours of use and AP-42 Chapter 1.11 0.0018 **% Lead**

Pollutant: **85.000** MMBtu/hr * 8760 hrs/yr / **136145.000** Btu/gal * 2000 lbs/ton * Ef (lbs/1000 gal) = (tons/yr)

P M:	45.5	lbs/1000 gal =	**124.533**	tons/yr
P M-10:	39.3	lbs/1000 gal =	**107.551**	tons/yr
S O x:	107.0	lbs/1000 gal =	**292.601**	tons/yr
N O x:	16.0	lbs/1000 gal =	**43.753**	tons/yr
VOC	1.0	lbs/1000 gal =	**2.735**	tons/yr
C O:	2.10	lbs/1000 gal =	**5.743**	tons/yr
Pb:	0.09	lbs/1000 gal =	**0.246**	tons/yr

* * aggregate drying: drum-mix plant * *

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

P M:		tons/yr
P M-10:		tons/yr
Lead:		tons/yr
HAPs:		tons/yr

* * aggregate drying: batch-mix plant * *

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

P M:	32	lbs/ton x	**200.0**	tons/hr x	8760	hrs/yr =	**28032.0**	tons/yr
			2000	lbs/ton				
P M-10:	4.5	lbs/ton x	200	tons/hr x	8760	hrs/yr =	**3942.0**	tons/yr
			2000	lbs/ton				
Lead:	0.0000033	lbs/ton x	200	tons/hr x	8760	hrs/yr =	**0.003**	tons/yr
			2000	lbs/ton				
HAPs:	0.0076	lbs/ton x	200	tons/hr x	8760	hrs/yr =	**6.658**	tons/yr
			2000	lbs/ton				

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

* * conveying / handling * *

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

Ef =	.0032*	(U/5)^1.3 * k = (M/2)^1.4	**0.003** lbs/ton
where k=	1	(particle size multiplier)	
U =	12	mph mean wind speed (worst case)	
M =	**5.0**	% moisture	

P M :	**0.003**	lbs/ton x	**190**	tons/hr x		8760	hrs/yr =	**2.304**	tons/yr		
			2000	lbs/ton							
	P M-10:	10%	of PM =					**0.230**	tons/yr		
Screening	PM:	**190**	tons/hr x		0.0315	lbs/ton	/ 2000 lbs/ton x	8760	hrs/yr =	**26.214**	tons/yr	AP-42 Ch.11.19.2
	P M-10:	10%	of PM =					**2.621**	tons/yr		

* * unpaved roads * *

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

A. Tri-axle Truck

4.5	trips/hr x						
0.07	miles/roundtrip x						
8760	hrs/yr =			**2759.4**	miles per year		
For PM		**For PM-10**					
	Ef =	{k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]					
10.48	=	2.14	lb/mile				
10	where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)				
4.8	s =	4.8	mean % silt content of unpaved roads				
0.5	b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)				
0.4	c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)				
33	W =	33	tons average vehicle weight				
0.2	Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)				
125	p =	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)				
	10.48	lb/mi x	2759.4	mi/yr =	PM	**14.46**	tons/yr
		2000	lb/ton				
	2.14	lb/mi x	2759.4	mi/yr =	PM-10	**2.96**	tons/yr
		2000	lb/ton				

B. Front End Loader

40.0	trips/hr x						
0.074	miles/roundtrip x						
8760	hrs/yr =			**25929.6**	miles per year		
For PM		**For PM-10**					
	Ef =	{k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]					
8.75	=	1.86	lb/mile				
10	where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)				
4.8	s =	4.8	mean % silt content of unpaved roads				
0.5	b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)				
0.4	c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)				
23	W =	23	tons average vehicle weight				
0.2	Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)				
125	p =	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)				
	8.75	lb/mi x	25929.6	mi/yr =	PM	**113.41**	tons/yr
		2000	lb/ton				
	1.86	lb/mi x	25929.6	mi/yr =	PM-10	**24.05**	tons/yr
		2000	lb/ton				

C. Semi Truck

0.0	trips/hr x						
0.0	miles/roundtrip x						
8760	hrs/yr =			**0.0**	miles per year		
For PM		**For PM-10**					
	Ef =	{k*[(s/12)^0.8]*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365]					
11.24	=	2.27	lb/mile				
10	where k =	2.6	(particle size multiplier for PM-10) (k=10 for PM-30 or TSP)				
4.8	s =	4.8	mean % silt content of unpaved roads				
0.5	b =	0.4	Constant for PM-10 (b = 0.5 for PM-30 or TSP)				
0.4	c =	0.3	Constant for PM-10 (c = 0.4 for PM-30 or TSP)				
38	W =	38	tons average vehicle weight				
0.2	Mdry =	0.2	surface material moisture content, % (default is 0.2 for dry conditions)				
125	p =	125	number of days with at least 0.254mm of precipitation (See Figure 13.2.2-1)				
	11.24	lb/mi x	0	mi/yr =	PM	**0.00**	tons/yr
		2000	lb/ton				
	2.27	lb/mi x	0	mi/yr =	PM-10	**0.00**	tons/yr
		2000	lb/ton				

All Trucking	Total PM:	**127.86**	tons/yr
	Total PM-10:	**27.01**	tons/yr

* * storage * *

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

Ef =	1.7*(s/1.5)*(365-p)/235*(f/15)	
=	1.74	lbs/acre/day for sand
=	1.16	lbs/acre/day for stone
=	1.16	lbs/acre/day for slag
=	1.16	lbs/acre/day for gravel
=	1.16	lbs/acre/day for RAP
where s =	1.5	% silt for sand
s =	1.0	% silt of stone
s =	1.0	% silt of slag
s =	1.0	% silt of gravel
s =	1.0	% silt for RAP
p =	125	days of rain greater than or equal to 0.01 inches
f =	15	% of wind greater than or equal to 12 mph

Ep (storage) = $\frac{\text{Ef * sc * (20 cuft/ton) * (365 days/yr)}}{\text{(2000 lbs/ton)*(43560 sqft/acre)*(25 ft)}}$

=	0.009	tons/yr for sand
=	0.000	tons/yr for stone
=	0.000	tons/yr for slag
=	0.000	tons/yr for gravel
=	0.002	tons/yr for RAP
Total PM:	**0.011**	tons/yr

where sc =	**1.5**	,000 tons storage capacity for sand
sc =	**0**	,000 tons storage capacity for stone
sc =	**0**	,000 tons storage capacity for slag
sc =	**0**	,000 tons storage capacity for gravel
sc =	**0.5**	,000 tons storage capacity for RAP

P M-10:	35%	of PM =	0.003	tons/yr for sand
	35%	of PM =	0.000	tons/yr for stone
	35%	of PM =	0.000	tons/yr for slag
	35%	of PM =	0.000	tons/yr for gravel
	35%	of PM =	0.001	tons/yr for RAP
Total PM-10:			**0.004**	tons/yr

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

natural gas		#2 oil				waste oil	
P M:	**28189** tons/yr	P M:	**28193.8** tons/yr			P M:	**28312.924** tons/yr
P M-10:	**3975** tons/yr	P M-10:	**3980.8** tons/yr			P M-10:	**4079.416** tons/yr
S O x:	**0.227** tons/yr	S O x:	**191.4** tons/yr			S O x:	**292.601** tons/yr
N O x:	**37.8** tons/yr	N O x:	**53.9** tons/yr			N O x:	**43.753** tons/yr
V O C:	**2.077** tons/yr	V O C:	**0.917** tons/yr			V O C:	**2.735** tons/yr
C O:	**31.7** tons/yr	C O:	**13.5** tons/yr			C O:	**5.743** tons/yr
Lead:	**0.003** tons/yr	Lead:	**0.003** tons/yr			Lead:	**0.003** tons/yr
HAPs:	**6.66** tons/yr	HAPs:	**6.66** tons/yr			HAPs:	**6.658** tons/yr

B. Source emissions after controls

dryer combustion: gas

P M:	0.71 tons/yr x	**0.125%**	emitted after controls =	**0.001**	tons/yr
P M-10:	2.83 tons/yr x	**0.356%**	emitted after controls =	**0.010**	tons/yr

dryer combustion: #2 oil

P M:	5.32 tons/yr x	**0.125%**	emitted after controls =	**0.007**	tons/yr
P M-10:	8.78 tons/yr x	**0.356%**	emitted after controls =	**0.031**	tons/yr

hot oil heater combustion: gas

P M:	0.010 tons/yr x	**100%**	emitted after controls =	**0.010**	tons/yr
P M-10:	0.040 tons/yr x	**100%**	emitted after controls =	**0.040**	tons/yr

hot oil heater combustion: #2 oil

P M:					tons/yr
P M-10:					tons/yr

dryer combustion: #4 oil

P M:					tons/yr
P M-10:					tons/yr

dryer combustion: waste oil

P M:	124.53 tons/yr x	**0.125%**	emitted after controls =	**0.156**	tons/yr
P M-10:	107.55 tons/yr x	**0.356%**	emitted after controls =	**0.383**	tons/yr

aggregate drying:

P M:	28032.00 tons/yr x	**0.125%**	emitted after controls =	**35.040**	tons/yr
P M-10:	3942.00 tons/yr x	**0.356%**	emitted after controls =	**14.034**	tons/yr

conveying/handling:

P M:	2.30 tons/yr x	**100%**	emitted after controls =	**2.304**	tons/yr
P M-10:	0.23 tons/yr x	**100%**	emitted after controls =	**0.230**	tons/yr

screening

P M:	26.21	tons/yr x	**100%**	emitted after controls =	**26.214**	tons/yr
P M-10:	2.62	tons/yr x	**100%**	emitted after controls =	**2.621**	tons/yr

unpaved roads:

P M:	127.86	tons/yr x	50.00%	emitted after controls =	**63.931**	tons/yr
P M-10:	27.01	tons/yr x	50.00%	emitted after controls =	**13.505**	tons/yr

storage:

P M:	0.011	tons/yr x	50.00%	emitted after controls =	**0.005**	tons/yr
P M-10:	0.004	tons/yr x	50.00%	emitted after controls =	**0.002**	tons/yr

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

	Gas	#2 Oil		Waste Oil	
P M:	**127.5**	**127.6**		**127.7**	tons/yr
P M-10:	**30.4**	**30.5**		**30.8**	tons/yr

II. Allowable Emissions

A. The following calculations determine compliance with NSPS Subpart I, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

$$\frac{0.04 \text{ grains}}{\text{dscf}} * \mathbf{56000.000} \text{ acfm} * \frac{528}{460 + \mathbf{270} \text{ Temp}} * \frac{100 - 5 \text{ \% moisture}}{100} *$$

$$\frac{525600 \text{ minutes}}{\text{year}} * \frac{1 \text{ lb}}{7000 \text{ grains}} * \frac{1 \text{ ton}}{2000 \text{ lbs}} = \mathbf{57.784} \text{ tons/yr}$$

To meet NSPS Subpart I, the following value must be less than amount calculated above: **35.3** tons/yr

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

limit:	0.5	lbs/MMBtu			
	0.5	lbs/MMBtu x	**140000**	Btu/gal=	**70.0** lbs/1000gal
	70	lbs/1000gal /	**142**	lb/1000 gal =	**0.5**

Sulfur content must be less than or equal to **0.5** % to comply with 326 IAC 7
and to limit SO2 emissions to 99 tons per year or less.

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

limit:	1.6	lbs/MMBtu			
	1.6	lbs/MMBtu x	**136145**	Btu/gal=	217.8 lbs/1000gal
	217.832	lbs/1000gal /	**214**	lbs/1000 gal =	**1.02**

Sulfur content must be less than or equal to **1.02** % to comply with 326 IAC 7
and to limit SO2 emissions to 99 tons per year or less.

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON SO2

FUEL USAGE LIMITATION FOR BURNER (#2 Oil)

188.8	tons SO2 / year	*	2000	lbs / ton	=	377618.57	lbs SO2 / year	
377618.57	lbs SO2 / year	/	71.0	lbs / 1000 gal	=	5318571.429	gal / year	
5318571.43	gal / year	*	**97.1** / 188.81	tons/yr / tons/yr	=	**2,735,211**	gal / year	FESOP Limit

NO. 2 OIL EQUIVALENCY CALCULATION:

Waste oil SO2 emission factor	107 lbs / 1000 gal	/	#2 oil SO2 emission factor	71 lbs / 1000 gal	=	**1.507**	gallons #2 oil / gallons waste oil

LIQUID BINDER USAGE LIMITATION: BASED ON VOC EMISSIONS FROM CUTBACK ASPHALT

Assume rapid cure and 95% evaporative loss of diluent.

Available VOC emissions: 97.2 tons per year

VOC solvent usage limit (rapid cure - worst case) = Available VOC emissions (tons per year) / 95% = **102.3** tons of VOC solvent in the liquid binder

MEDIUM CURE CUTBACK ASPHALT EQUIVALENCY CALCULATION:

1 ton medium cure liquid binder * volatization ratio 70% / 95% **=** **0.737** tons rapid cure liquid binder

SLOW CURE CUTBACK ASPHALT EQUIVALENCY CALCULATION:

1 ton medium cure liquid binder * volatization ratio 25% / 95% **=** **0.263** tons rapid cure liquid binder

EMULSIFIED ASPHALT WITH SOLVENT EQUIVALENCY CALCULATION:

1 ton medium cure liquid binder * volatization ratio 46% / 95% **=** **0.488** tons rapid cure liquid binder

OTHER ASPHALT WITH SOLVENT BINDER EQUIVALENCY CALCULATION:

1 ton medium cure liquid binder * volatization ratio 3% / 95% **=** **0.0263** tons rapid cure liquid binder

RAP SYSTEM

Crushing	30 ton/hr x	0.00504 lb/ton	/ 2,000 lbs/ton	x 8,760 hrs/yr	=	**0.662**	tons PM per year
Conveyor Transfer	30 ton/hr x	0.00294 lb/ton	/ 2,000 lbs/ton	x 8,760 hrs/yr	=	**0.386**	tons PM per year
					Total	**1.05**	
Crushing	30 ton/hr x	0.0024 lb/ton	/ 2,000 lbs/ton	x 8,760 hrs/yr	=	**0.315**	tons PM-10 per year
Conveyor Transfer	30 ton/hr x	0.0014 lb/ton	/ 2,000 lbs/ton	x 8,760 hrs/yr	=	**0.184**	tons PM-10 per year

Total	**0.499**