INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding the New Source Review and Renewal of a Federally Enforceable State Operating Permit

For **Meshberger Brothers Stone Corporation** located in **Adams County**

FESOP No.: 001-24364-00058

The Indiana Department of Environmental Management (IDEM) has received an application from Meshberger Brothers Stone Corporation, located at 699 S 500 E, Decatur, Indiana 46733, for the renewal of a Federally Enforceable Operating Permit (FESOP). IDEM's Office of Air Quality (OAQ) issues this type of permit to regulate the operation of sources that release air pollutants.

IDEM has reviewed this application, and has developed preliminary findings, consisting of a draft permit and several supporting documents, that would allow Meshberger Brothers Stone Corporation to continue to operate a stationary batch mix asphalt production plant. If this source operated 365 days a year, 24 hours a day, 7 days a week, it could potentially release greater than 250 tons of PM, PM_{10}, CO, SO_2, and VOC, greater than 100 tons of NO_x, greater than 10 tons of a single HAP, and greater than 25 tons of a combination of HAPs per year. The FESOP will limit emissions to less than 250 tons per year of PM, less than 100 tons per year of PM_{10}, CO, SO_2, NO_x, and VOC, less than 10 tons per year of a single HAP, and less than 25 tons per year of a combination of HAPs. The permit requires fuel usage limits and the use of air pollution control equipment to limit the amount of air pollution that can be released.

The applicant intends to operate equipment with the option to burn a new fuel type that will emit air pollutants, therefore the permit contains new or different permit conditions. In addition, some conditions from previously issued permits/approvals have been corrected, changed or removed.

A copy of the permit application and IDEM's preliminary findings are available at:

City of Berne Public Library
166 Sprunger Street
Berne, Indiana 46711

A copy of the preliminary findings is available on the Internet at: www.in.gov/idem/permits/air/pending.html.

How can you participate in this process?

The day after this announcement is published in a newspaper marks the beginning of a 30-day public comment period. During that 30-day period, you may comment on this draft permit. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM may hold

a public hearing. If a public hearing is held, IDEM will make a separate announcement of the date, time, and location of that hearing. At a hearing, you would have an opportunity to submit written comments, make verbal comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM. If you do not want to comment at this time, but would like to be added to IDEM's mailing list to receive notice of future action related to this permit application, please contact IDEM. Please refer to FESOP 001-24364-00058 in all correspondence.

Contact IDEM at:

IDEM, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(800) 451-6027

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this permit application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Ms. Stacie Enoch of ERG.

To contact the Permit Reviewer:

Stacie Enoch
ERG
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
Dial directly: 919-468-7893
E-mail: stacie.enoch@erg.com

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the address indicated above, at the local library indicated above, the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate, Indianapolis.

If you have any questions please contact Stacie Enoch at the above address.

Nisha Sizemore, Chief
Permits Branch
Office of Air Quality

For additional information about air permits, and how you can participate, please see IDEM **Citizens' Guide to Public Participation** and **Permit Guide** on the Internet at: www.in.gov/idem/permits/guide/.

ERG/SE

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DRAFT

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

Meshberger Brothers Stone Corporation
699 S 500 E
Decatur, Indiana 46733

(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.

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 new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

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

Operation Permit No.: F001-24364-00058	
Issued by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date:

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SECTION A SOURCE SUMMARY

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

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

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

Source Address:	699 S 500 E, Decatur, Indiana 46733
Mailing Address:	P.O. Box 345, Berne, Indiana, 46711
General Source Phone Number:	260-334-5311
SIC Code:	2951
County Location:	Adams
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

One batch hot-mix asphalt plant constructed in 1967 (unless otherwise indicated), including the following units:

(a) One (1) aggregate dryer/mixer, with a maximum throughput capacity of 300 tons of asphalt per hour, having a burner with a maximum heat input rate of 96.8 million British thermal units per hour, exhausting through a baghouse at stack SV1. The dryer is fired by natural gas as the primary fuel, with No. 2 distillate fuel oil and waste oil used as backup fuels.

(b) Cold-mix (stockpile mix) asphalt storage piles.

(c) One (1) batch tower, constructed in 1996, exhausting through a baghouse at stack SV1, and including the following units:

(1) One (1) hot elevator with a maximum throughput capacity of 360 tons of asphalt per hour;

(2) One (1) screen deck with a maximum throughput capacity of 350 tons of asphalt per hour;

(3) Hot aggregate storage bins with a total maximum capacity of 180 tons;

(4) One (1) weigh hopper with a maximum capacity of 5 tons of asphalt; and

(5) One (1) pug mill with a batch size of 5 tons of asphalt.

(d) Emission units with PM and PM-10 emissions less than five (5) tons per year, SO_2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:

(1) One (1) material conveying and handling operation. [326 IAC 6-3]

(2) One (1) 19,430 gallon storage tank ID#12 for liquid asphalt AC-20, constructed after July 23, 1984.

(3) One (1) 19,430 gallon storage tank ID#13 for liquid asphalt AC-20 and asphalt emulsion AE-300, constructed after July 23, 1984.

(4) Two (2) 12,000 gallon storage tanks ID#29 and ID#30 for No. 2 fuel oil, constructed after July 23, 1984.

(e) Three (3) hot mix asphalt storage bins with a maximum storage capacity of 200 tons of asphalt, each.

(f) Two (2) electric heater units.

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

This stationary source also includes the following insignificant activities:

(a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(b) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(c) One (1) Recycled Asphalt Product (RAP) system, constructed in 2006, with a maximum throughput capacity of 45 tons of asphalt per hour, consisting of the following [40 CFR 60, Subpart OOO]:

(1) One (1) RAP cold feed system feed bin,

(2) One (1) RAP cold feed system lump breaker,

(3) One (1) RAP cold feed system conveyor system, and

(4) RAP storage piles with a total maximum capacity of 20,000 tons.

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 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

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

(a) This permit, F001-24364-00058, 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.4 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.5 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.6 Severability [326 IAC 2-8-4(4)]

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by 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.9 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.

(c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

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

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

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

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

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

B.11 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.12 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by 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.13 Emergency Provisions [326 IAC 2-8-12]

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

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

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

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

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

Indianapolis, Indiana 46204-2251

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

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

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

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

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

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

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to F001-24364-00058 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.15 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.16 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

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

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

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

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

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

(1) That this permit contains a material mistake.

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

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

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

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

B.18 Permit Renewal [326 IAC 2-8-3(h)]

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

Request for renewal shall be submitted to:

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

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

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

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

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

B.19 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

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

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

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

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

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

B.20 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

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

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

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

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

(4) The Permittee notifies the:

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

and

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

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

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

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

(b) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

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

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

B.21 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.22 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

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

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

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

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

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

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

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

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

B.24 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.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] [326 IAC 2-2]

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

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

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

C.3 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

C.8 Performance Testing [326 IAC 3-6]

(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

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

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 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.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

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

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

C.11 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.12 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.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on.

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

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

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

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

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

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

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

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

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

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

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

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

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

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

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

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

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

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

(a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

(b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

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

One batch hot-mix asphalt plant constructed in 1967 (unless otherwise indicated) including the following units:

(a) One (1) aggregate dryer/mixer, with a maximum throughput capacity of 300 tons of asphalt per hour, having a burner with a maximum heat input rate of 96.8 million British thermal units per hour, exhausting through a baghouse at stack SV1. The dryer is fired by natural gas as the primary fuel, with No. 2 distillate fuel oil and waste oil used as backup fuels.

(b) Cold-mix (stockpile mix) asphalt storage piles.

(c) One (1) batch tower, constructed in 1996, exhausting through a baghouse at stack SV1, and including the following units:

(1) One (1) hot elevator with a maximum throughput capacity of 360 tons of asphalt per hour;

(2) One (1) screen deck with a maximum throughput capacity of 350 tons of asphalt per hour;

(3) Hot aggregate storage bins with a total maximum capacity of 180 tons;

(4) One (1) weigh hopper with a maximum capacity of 5 tons of asphalt; and

(5) One (1) pug mill with a batch size of 5 tons of asphalt.

(d) Emission units with PM and PM-10 emissions less than five (5) tons per year, SO_2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:

(1) One (1) material conveying and handling operation. [326 IAC 6-3]

(2) One (1) 19,430 gallon storage tank ID#12 for liquid asphalt AC-20, constructed after July 23, 1984.

(3) One (1) 19,430 gallon storage tank ID#13 for liquid asphalt AC-20 and asphalt emulsion AE-300, constructed after July 23, 1984.

(4) Two (2) 12,000 gallon storage tanks ID#29 and ID#30 for No. 2 fuel oil, constructed after July 23, 1984.

(e) Three (3) hot mix asphalt storage bins with a maximum storage capacity of 200 tons of asphalt, each.

(f) Two (2) electric heater units.

(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 PM, PM10, CO, NOx, and VOC Limitations for the Aggregate Dryer/Mixer [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 and 326 IAC 2-2, the emissions from the aggregate dryer/mixer shall be limited as follows:

(a) The asphalt production rate shall be limited to less than 495,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) PM/PM10 emissions from the aggregate dryer/mixer shall be limited to less than 0.3149 pounds of PM/PM10 per ton of asphalt produced.

(c) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.40 pounds of CO per ton of asphalt produced.

(d) NOx emissions from the aggregate dryer/mixer shall be limited to less than 0.12 pounds of NOx per ton of asphalt produced when combusting No. 2 fuel oil or waste oil.

(e) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.036 pounds of VOC per ton of asphalt produced.

Compliance with these limits, combined with the limits and emissions from other emission units at this source, will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

D.1.2 Sulfur Dioxide (SO_2) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4 and 326 IAC 2-2, the Permittee shall comply with the following:

(a) The sulfur content of the No. 2 fuel oil used shall not exceed 0.5% by weight.

(b) The sulfur content of the waste oil used shall not exceed 0.75% by weight.

(c) The SO_2 emissions from the aggregate dryer burner shall be limited to less than 110 pounds per thousand gallons (lb/kgal) of waste oil and less than 71.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil.

(d) The No. 2 fuel oil combusted shall be limited to less than 2,676,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month. For the purpose of determining compliance with this limit, every thousand gallons of No. 2 fuel oil shall be considered equivalent to 644 gallons of waste oil.

Compliance with this limit will limit the potential to emit SO_2 from the entire source to less than 100 tons per year and render 326 IAC 2-7 (Part 70 Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) are not applicable.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-2]

(a) Pursuant to 326 IAC 2-8-4 and 326 IAC 2-2, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 86.1 tons of VOC emissions are emitted per twelve (12) consecutive month period with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent usage for any one selected binder to less than or equal to the stated limit in (c) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed 86.1 tons per twelve (12) consecutive month period.

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

(1) Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.

(2) 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.

(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

(c) The liquid binder used in cold mix asphalt production shall be limited as follows:

(1) Cutback asphalt rapid cure liquid binder usage shall not exceed 90.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) Cutback asphalt medium cure liquid binder usage shall not exceed 123 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(3) Cutback asphalt slow cure liquid binder usage shall not exceed 344.4 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(4) Emulsified asphalt with solvent liquid binder usage shall not exceed 185.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(5) Other asphalt with solvent liquid binder shall not exceed 3,444 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(6) When more than one type of binder is used per twelve (12) month consecutive period, the total usage of all binders shall be limited so that the total potential to emit VOC is less than or equal to 86.1 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment factor listed in the table that follows.

$$\text{VOC Emitted (tons/yr)} = \frac{\text{VOC solvent used for each binder (tons/year)}}{\text{Adjustment factor}}$$

Type of Binder	VOC Solvent Used (tons/year)	Adjustment Factor	VOC Emitted (tons/year)
Cutback Asphalt Rapid Cure		1.053	
Cutback Asphalt Medium Cure		1.429	
Cutback Asphalt Slow Cure		4.0	
Emulsified Asphalt		2.155	
Other Asphalt		40.0	

Compliance with these limits, combined with the emissions and limits of other units at this source, will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

D.1.4 Sulfur Dioxide (SO_2) Emission Limitations [326 IAC 7-1.1-1] [326 IAC 7-1.1-2]

Pursuant to 7-1.1-2, sulfur dioxide emissions from the asphalt plant shall be limited as follows:

(a) One and six-tenths (1.6) pounds per MMBtu for residual oil combustion, and

(b) Five-tenths (0.5) pound per MMBtu for distillate oil combustion.

D.1.5 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4]

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

(a) The chlorine content of the waste oil used in the 100 MMBtu per hour burner for the aggregate dryer shall not exceed seventeen hundredths of a percent (0.17%) by weight.

(b) The usage of waste oil in the 100 MMBtu per hour burner for the aggregate dryer shall be limited to 1,735,510 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(c) The HCl emissions from the 100 MMBtu per hour burner for the aggregate dryer shall be limited to less than 11.4 pounds of HCl per 1,000 gallons of waste oil burned.

These limits are required in order to limit the source-wide emissions of HCl to less than 10 tons per year. Compliance with these limits will also limit source-wide emissions of combined HAPs to less than 25 tons per year. Therefore, compliance with these limits renders 326 IAC 2-7 (Part 70) not applicable.

D.1.6 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the aggregate dryer/mixer shall not exceed 63.0 pounds per hour when operating at a process weight rate of 600,000 pounds per hour, and the allowable particulate emission rate from the material conveying and handling operations and batch tower shall not exceed 63.6 pounds per hour when operating at a process weight rate of 630,000 pounds per hour. The pounds per hour limitations were calculated with the following equation:

Interpolation and extrapolation of the data for process weight rates 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.

D.1.7 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.8 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed one and six-tenths (1.6) pounds per MMBtu for residual oil combustion and five-tenths (0.5) pounds per million Btu heat input for distillate oil combustion 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 96.8 MMBtu 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.

D.1.9 Hydrogen Chloride (HCl) Emissions and Chlorine Content

The Permittee shall demonstrate that the chlorine content of the fuel used for the aggregate dryer burner does not exceed seventeen hundredths of a percent (0.17%) by weight, when operating on waste oil, by providing a vendor analysis of fuel delivered accompanied by a vendor certification.

D.1.10 Testing Requirements [326 IAC 2-8-4(3)]

The Permittee shall perform PM and PM10 stack testing utilizing methods as approved by the Commissioner to document compliance with Condition D.1.1(b). These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.11 Particulate Matter (PM) and PM10

(a) In order to comply with Conditions D.1.1 and D.1.6, the baghouse for PM and PM10 control shall be in operation and control emissions from the aggregate dryer/mixer at all times that the aggregate dryer/mixer is in operation.

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

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 aggregate dryer/mixer baghouse stack exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(d) 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 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For a single compartment baghouses 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 have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission 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.1.14 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer/burner, at least once per day when the aggregate dryer/burner is in operation. When 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 and 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 and 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.

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

D.1.15 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain monthly records of asphalt production.

(b) To document compliance with Condition D.1.3, the Permittee shall document VOC usage as follows:

(1) Amount and type of liquid binder used in the production of cold mix asphalt each month;

(2) Type and VOC solvent content by weight of the liquid binder used in the production of cold mix asphalt each month;

(3) Amount of VOC solvent used in the production of cold mix asphalt each month.

Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test results of ASTM tests for asphalt cutback and asphalt emulsion may be used to document volatilization.

(c) To document compliance with Conditions D.1.2, D.1.4, D.1.5, and D.1.9, the Permittee shall maintain records in accordance with (1) through (6) below.

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

(2) Actual fuel usage for re-refined waste oil and No. 2 fuel oil since last compliance determination period and equivalent sulfur dioxide emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); 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 No. 2 fuel oil or waste oil, and a statement from the fuel supplier that certifies the chlorine content of the waste oil.

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

(d) To document compliance with Condition D.1.12, the Permittee shall maintain a daily record of visible emission notations of the aggregate dryer/mixer stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) To document compliance with Condition D.1.14, the Permittee shall maintain a daily record of the pressure drop across the baghouse. The Permittee shall include in its daily

record when a pressure drop reading is not taken and the reason for that lack of a pressure drop reading (e.g. the process did not operate that day).

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

D.1.16 Reporting Requirements

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

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

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

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

(a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(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.2.1 Particulate Matter (PM) and PM10 [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8 and 326 IAC 2-2, the Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM and PM10 emissions from paved and unpaved roads. Compliance with this limit, combined with the PM and PM10 emissions from other units at this source, will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

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

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

(c) One (1) Recycled Asphalt Product (RAP) system, constructed in 2006, with a maximum throughput capacity of 45 tons of asphalt per hour, consisting of the following [40 CFR 60, Subpart OOO]:

(1) One (1) RAP cold feed system feed bin,

(2) One (1) RAP cold feed system lump breaker,

(3) One (1) RAP cold feed system conveyor system, and

(4) RAP storage piles with a total maximum capacity of 20,000 tons.

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

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

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

D.3.2 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 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,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204

D.3.3 New Source Performance Standard for Nonmetallic Mineral Processing Plants Requirements [40 CFR Part 60, Subpart OOO] [326 IAC 12]

Pursuant to 40 CFR Part 60.670, the Permittee shall comply with the provisions of 40 CFR 60, Subpart OOO (New Source Performance Standards Nonmetallic Mineral Processing Plants), which are incorporated by reference as 326 IAC 12 for the RAP system as follows.

Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants

Source: 51 FR 31337, Aug. 1, 1985, unless otherwise noted.

§ 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	

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 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.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 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.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

§ 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.

[54 FR 6680, Feb. 14, 1989, as amended at 62 FR 31360, June 9, 1997]

§ 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.

[51 FR 31337, Aug. 1, 1985, as amended at 54 FR 6680, Feb. 14, 1989; 62 FR 31360, June 9, 1997; 65 FR 61778, Oct. 17, 2000]

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Meshberger Brothers Stone Corporation
Source Address: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058

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

Please check what document is being certified:

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

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

Signature:
Printed Name:
Title/Position:
Date:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Meshberger Brothers Stone Corporation
Source Address: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058

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:

DRAFT

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: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058
Facility: 96.8 MMBtu per hour aggregate dryer burner
Parameter: Waste oil and equivalent usage limit to limit SO_2 emissions
Limit: The usage of waste oil with a sulfur content of 0.75% and waste oil equivalents in the 96.8 MMBtu per hour burner for the aggregate dryer shall be limited to 1,723,000 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month. For purposes of determining compliance, every 1,000 gallons of No. 2 distillate fuel oil burned shall be equivalent to 644 gallons of waste oil based on SO_2 emissions.

YEAR:_____

Month	Column1		Column 2		Column 1 + Column 2	
	Waste oil and equivalent usage this month (gallons)		Waste oil and equivalent usage previous 11 months (gallons)		12 month total waste oil and equivalent usage (gallons)	
	Waste oil	Equiv.	Waste Oil	Equiv.	Waste Oil	Equiv.
Month 1						
Month 2						
Month 3						

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058
Facility: 96.8 MMBtu per hour aggregate dryer burner
Parameter: Waste oil usage limit to limit HCl emissions
Limit: The usage waste oil with a chlorine content of 0.17% in the 96.8 MMBtu per hour burner for the aggregate dryer shall be limited to 1,723,000 U.S. gallons per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR:_____

Month	Column1	Column 2	Column 1 + Column 2
	Waste oil usage this month (gallons)	Waste oil usage previous 11 months (gallons)	12 month total waste oil usage (gallons)
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

Single Liquid Binder Solvent Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058
Facility: Asphalt Plant
Parameter: Liquid Binder Usage
Limit: Cutback asphalt rapid cure liquid binder usage shall not exceed 90.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt medium cure liquid binder usage shall not exceed 123 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt slow cure liquid binder usage shall not exceed 344 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Emulsified asphalt with solvent liquid binder usage shall not exceed 185.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Other asphalt with solvent liquid binder shall not exceed 3,444 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR:_____

The following liquid binder solvent was the only liquid binder solvent used over the previous 12 month period:_____ Limit applicable:_____

(use of more than one binder requires the use of the "Multiple Liquid Binder Solvents" report form)

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

☐ No deviation occurred in this reporting period.
☐ Deviation/s occurred in this reporting period.

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

Multiple Liquid Binder Solvent Quarterly Report

Source Name: Meshberger Brothers Stone Corporation
Source Address: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP No.: F001 24364 00058
Facility: Asphalt Plant
Parameter: VOC Emissions
Limit: 86.1 tons per year
Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11months =VOC emitted 12 Month Total (tons)
Month 1	Cutback asphalt rapid cure		1.053				
	Cutback asphalt medium cure		1.429				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.155				
	other asphalt		40.0				
Month 2	Cutback asphalt rapid cure		1.053				
	Cutback asphalt medium cure		1.429				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.155				
	other asphalt		40.0				
Month 3	Cutback asphalt rapid cure		1.053				
	Cutback asphalt medium cure		1.429				
	Cutback asphalt slow cure		4.0				
	Emulsified asphalt		2.155				
	other asphalt		40.0				

☐ **No deviation occurred in this reporting period.**
☐ **Deviation/s occurred in this reporting period.**
Deviation has been reported on:
Submitted by: _____ **Date:**_____
Title / Position: _____ **Phone:**
Signature:

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: 699 S 500 E, Decatur, Indiana 46733
Mailing Address: P.O. Box 345, Berne, Indiana, 46711
FESOP Permit No.: F001-24364-00058

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: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Meshberger Brothers Stone Corporation
Source Location:	699 S 500 E, Decatur, Indiana 46733
County:	Adams
SIC Code:	2951
Operation Permit No.:	F001-14046-00058
Operation Permit Issuance Date:	March 6, 2002
Permit Renewal No.:	F001-24364-00058
Permit Reviewer:	ERG/SE

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Meshberger Brothers Stone Corporation relating to the operation of a stationary batch hot-mix asphalt plant.

History

Meshberger Brothers Stone Corporation was issued a FESOP Renewal on March 6, 2002. On February 23, 2007, Meshberger Brothers Stone Corporation submitted an application to the OAQ requesting to renew its operating permit. In the application, the Permittee requested to add the option to burn waste oil in the aggregate dryer burner.

Permitted Emission Units and Pollution Control Equipment

One batch hot-mix asphalt plant constructed in 1967 (unless otherwise indicated) including the following units:

(a) One (1) aggregate dryer/mixer, with a maximum throughput capacity of 300 tons of asphalt per hour, having a burner with a maximum heat input rate of 96.8 million British thermal units per hour, exhausting through a baghouse at stack SV1. The dryer is fired by natural gas as the primary fuel, with No. 2 distillate fuel oil and waste oil used as backup fuels.

(b) Cold-mix (stockpile mix) asphalt storage piles.

(c) One (1) batch tower, constructed in 1996, exhausting through a baghouse at stack SV1, and including the following units:

(1) One (1) hot elevator with a maximum throughput capacity of 360 tons of asphalt per hour;

(2) One (1) screen deck with a maximum throughput capacity of 350 tons of asphalt per hour;

(3) Hot aggregate storage bins with a total maximum capacity of 180 tons;

(4) One (1) weigh hopper with a maximum capacity of 5 tons of asphalt; and

(5) One (1) pug mill with a batch size of 5 tons of asphalt.

(d) Emission units with PM and PM-10 emissions less than five (5) tons per year, SO_2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year:

(1) One (1) material conveying and handling operation. [326 IAC 6-3]

(2) One (1) 19,430 gallon storage tank ID#12 for liquid asphalt AC-20, constructed after July 23, 1984.

(3) One (1) 19,430 gallon storage tank ID#13 for liquid asphalt AC-20 and asphalt emulsion AE-300, constructed after July 23, 1984.

(4) Two (2) 12,000 gallon storage tanks ID#29 and ID#30 for No. 2 fuel oil, constructed after July 23, 1984.

(e) Three (3) hot mix asphalt storage bins with a maximum storage capacity of 200 tons of asphalt, each.

(f) Two (2) electric heater units.

Emission Units and Pollution Control Equipment Removed From the Source

The 105.5 million British thermal units per hour burner used with the aggregate dryer/mixer was replaced in 2007 by a 96.8 million British thermal units per hour burner. The burners are capable of burning the same fuels (natural gas, fuel oil No. 2, and waste oil), the throughput capacity of the asphalt plant was unchanged as a result of this replacement, and the replacement resulted in a decrease in the potential to emit of all pollutants.

Insignificant Activities

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

(a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

(b) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(c) One (1) Recycled Asphalt Product (RAP) system, constructed in 2006, with a maximum throughput capacity of 45 tons of asphalt per hour, consisting of the following [40 CFR 60, Subpart OOO]:

(1) One (1) RAP cold feed system feed bin,

(2) One (1) RAP cold feed system lump breaker,

(3) One (1) RAP cold feed system conveyor system, and

(4) RAP storage piles with a total maximum capacity of 20,000 tons.

Existing Approvals

Since the issuance of the FESOP Renewal 001-14046-00058 on March 6, 2002, the source has constructed or has been operating under the following approvals as well:

(a) Significant Permit Revision No. 001-15512-00058 issued on June 12, 2002;

(b) Administrative Amendment No. 001-15956-00058 issued on August 19, 2002.

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

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

(a) FESOP limits:

The FESOP limits in Conditions D.1.2, D.1.3, and D.1.5 of F001-14046-00058 (as revised by SPR 001-15512-00058) have been updated to reflect the revised potential emission calculations and to allow for the combustion of waste oil in the aggregate dryer burner.

(b) Particulate emission limits:

The particulate emission limit in Condition D.2.2 of F001-14046-00058 has been revised to reflect the process weight rate provided by the Permittee on May 2, 2007.

The following terms and conditions from previous approvals have been determined no longer applicable and therefore, were not incorporated into this FESOP Renewal:

(a) All construction conditions from all previously issued permits.

Reason not incorporated: All facilities previously permitted have already been constructed; therefore, the construction conditions are no longer necessary as part of the operating permit. Any facilities that were previously permitted but have not yet been constructed would need new pre-construction approval before beginning construction.

(b) 40 CFR 60, Subpart Kb requirements:

Reason not incorporated: 40 CFR 60, Subpart Kb was revised by the U.S. EPA on October 15, 2003 and no longer applies to storage tanks with capacities less than 75 cubic meters. Although the storage tanks were constructed after July 23, 1984, they each have a storage capacity less than 75 cubic meters.

Enforcement Issue

IDEM is aware that the source did not apply for a FESOP renewal in a timely manner. IDEM is reviewing this matter and will take appropriate action.

Emission Calculations

See Appendix A of this document for detailed emission calculations (pages 1 through 10).

County Attainment Status

The source is located in Adams County

Pollutant	Status
PM_{10}	Attainment
$PM_{2.5}$	Attainment
SO_2	Attainment
NOx	Attainment
8-hour Ozone	Attainment
CO	Attainment
Lead	Attainment

(a) Adams County has been classified as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD),

326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source section.

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

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

(d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

(e) Fugitive Emissions
Since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	42,132
PM10	5,941
SO_2	390
VOC	>250
CO	526
NO_x	158

HAPs	tons/year
Hydrochloric Acid	39.6
Other HAPs	0.77
Total	40.4

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10, SO_2, VOC, CO, and NOx is greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit their PM10, SO_2, VOC, CO, and NOx emissions to less than Title V levels, therefore the source will be issued a FESOP.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is greater than ten (10) tons per year, and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. However, the source has agreed to limit their single HAP emissions and total HAP emissions below Title V levels. Therefore, the source will be issued a FESOP.

<u>Fugitive Emissions</u>

Since this source is in a category for which there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward the determination of Part 70 applicability.

Actual Emissions

No previous emission data has been received from the source.

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.

	Potential To Emit (tons/year)							
Process/emission unit	**PM**	**PM10**	**SO_2**	**VOC**	**CO**	**NOx**	**Single HAP**	**Total HAPs**
Aggregate Dryer/Mixer [(1)]	77.9	77.9	95.0	8.91	99.0	41.6	<24.0	<9.90
Unpaved Roads [(2)]	26.9	6.86	--	--	--	--	--	--
Material Conveying/Handling	28.6	13.5	--	--	--	--	--	--
Storage Piles	8.08E-04	2.83E-04	--	--	--	--	--	--
RAP System	1.68	0.71	--	--	--	--	--	--
Cold Mix Asphalt Production[(3)]	--	--	--	86.1	--	--	--	--
Storage Tanks	--	--	--	4.00	--	--	--	--
Total Emissions	135	99.0	95.0	99.0	99.0	41.6	<25.0	<10.0

[(1)]The PM10, SO_2, VOC, CO, NOx, and HAP emissions from the aggregate dryer/mixer are limited pursuant to 326 IAC 2-8 (FESOP), and the PM, PM10, SO_2, VOC, and CO emissions from the aggregate dryer/mixer are limited pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration). See State Rule Applicability - Entire Source section below. The value shown for NOx emissions from the aggregate dryer/mixer in the table above (41.6 tons/year) represents the unlimited PTE when burning natural gas. Combustion of natural gas in the aggregate dryer/mixer does not require a limit for NOx. The NOx emissions will be limited to less than 41.6 tons/year when combusting No. 2 fuel oil or waste oil.

[(2)]The PM10 emissions from unpaved roads have been limited pursuant to 326 IAC 2-8 (FESOP), and the PM and PM10 emissions from unpaved roads have been limited pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration). See State Rule Applicability - Entire Source section below.

[(3)]The VOC emissions from cold mix asphalt production have been limited pursuant to 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (Prevention of Significant Deterioration). See State Rule Applicability - Entire Source section below.

(a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.

(b) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

The following federal rules are applicable to the source:

(a) The requirements of 326 IAC 12 or 40 CFR 60, Subpart Kb (New Source Performance Standards for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984) are not included in this permit for this source. Although the tanks were

constructed after July 23, 1984, they each have a storage capacity less than 75 cubic meters.

(b) The requirements of 326 IAC 12 or 40 CFR 60, Subpart I (New Source Performance Standards for Hot Mix Asphalt Facilities) are not included in this permit for this source. The asphalt plant was originally constructed in 1967, which is before the June 11, 1973 applicability date for this rule. In April of 2007, the burner for the aggregate dryer was replaced with a smaller burner. The replacement burner uses the same fuels as the original burner and did not increase the capacity of the asphalt plant. This replacement did not result in an increase in the potential to emit any regulated pollutant. Therefore, the replacement is not considered a modification, as defined in 40 CFR 60.2. The replacement is not considered a reconstruction, as defined by 40 CFR 60.15 and 326 IAC 1-2-65, of the hot mix asphalt plant, since the fixed capital costs of the replacement dryer burner described above do not exceed 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facilty. In 2007, after the issuance of this permit, the source will be permitted to burn waste oil as an alternative fuel for the aggregate dryer/mixer burner. Pursuant to 40 CFR 60.14(e)(4), use of an alternative fuel shall not, by itself, be considered a modification if the existing facility was designed to accomodate that alternative use prior to the date any standard under this part becomes applicable to that source type. This asphalt plant has always been capable of burning waste oil; however, the source elected not to use this fuel type. Previous approvals issued by IDEM did not allow waste oil to be burned in the dryer. Therefore, adding waste oil as an alternative fuel is not considered a modification, and the requirements of 40 CFR 60, Subpart I are not included in this permit.

(c) The requirements of 326 IAC 12 or 40 CFR 60, Subpart UU (New Source Performance Standards for Asphalt Processing and Asphalt Roofing Manufacture) are not included in this permit for this source because this source is not an asphalt processing plant or asphalt roofing plant as defined in 40 CFR 60.471.

(d) The RAP lump breaker, feed bin, and conveyor system are subject to 326 IAC 12 and 40 CFR 60, Subpart OOO (New Source Performance Standards for Nonmetallic Mineral Processing Plants), because they are affected facilities that were constructed after August 31, 1983, located at a source that meets the definition of a non-metallic mineral processing plant as defined under 40 CFR 60.

The asphalt recycling breaker, feed bin, and conveyor system are subject to the following portions of Subpart OOO. Nonapplicable portions of the NSPS will not be included in the permit.

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

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart OOO.

(e) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in this permit.

(f) The requirements of 326 IAC 20-71 or 40 CFR 63, Subpart LLLLL (National Emission Standards for Hazardous Air Pollutants for Asphalt Processing and Asphalt Roofing Manufacturing) are not included in this permit for this source, because the source is not a major source of HAPs.

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

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source was initially constructed in 1967, is not in 1 of 28 source categories listed under PSD, and at the time of initial construction had the potential to emit PM, PM10, SO_2, and VOC greater than 250 tons per year. Therefore, this source was an existing major source prior to the issuance of the first FESOP. When the first FESOP 001-5603-00058 was issued to this source in 1996, the source accepted limits to become a minor source under PSD. Since that time, there have been no modifications to the source that resulted in a significant increase in the potential to emit any regulated pollutant.

In 2006, the source constructed and operated the insignificant RAP system. This addition did not result in a significant increase in the potential to emit of any regulated pollutant. In 2007, the source replaced the aggregate dryer burner with the 96.8 million Btu per hour burner. This resulted in a decrease in the potential to emit of all regulated pollutants. Therefore, the source has not triggered PSD.

This permit includes limits in order for the source to continue to operate as a minor source under PSD. PM emissions from the aggregate dryer/mixer are limited to 0.3149 pounds PM per ton of asphalt mix produced based on a maximum throughput of 495,000 tons of asphalt mix per twelve consecutive month period. The Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM and PM10 emissions from paved and unpaved roads. Compliance with these limits, combined with the PM emissions from all other emission units at this source, will limit the source-wide potential to emit PM to less than 250 tons per year and render the requirements of 326 IAC 2-2 not applicable.

The limits to comply with 326 IAC 2-8 (FESOP) listed below will limit emissions of PM10, NOx, CO, SO_2, and VOC to less than 100 tons per year for the entire source. Compliance with these limits, combined with the PM10, NOx, CO, SO_2, and VOC emissions from all other emission units at this source, will limit the source-wide potential to emit of these pollutants to less than 100 tons per year and render the requirements of 326 IAC 2-2 not applicable.

326 IAC 2-6 (Emission Reporting)

This source is located in Adams County, is not required to operate under a Part 70 permit, and has potential lead emissions less than five (5) tons per year. Therefore, pursuant to 326 IAC 2-6-1(b), the source is only subject to additional information requests as provided in 326 IAC 2-6-5.

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 Exemptions), opacity shall meet the following, unless otherwise stated in the permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 6-4 (Fugitive Dust Emissions)

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).

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

This source was constructed in Adams County prior to December 13, 1985; therefore, it is not subject to the requirements of 326 IAC 6-5.

326 IAC 2-8 (FESOP)

(a) The potential to emit SO_2 from the aggregate dryer/mixer when burning natural gas, combined with the emissions from other units at this source, is less than Part 70 thresholds. Therefore, no fuel usage limit is needed for burning natural gas in the aggregate dryer/mixer. Pursuant to 326 IAC 2-8-4, the usage of No. 2 fuel oil for the aggregate dryer burner shall be limited to 2,676,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. The sulfur content of the No. 2 fuel oil shall be limited to 0.50% by weight. The SO_2 emissions from the aggregate dryer burner shall be limited to less than 71.0 pounds per thousand gallons (lb/kgal) of No. 2 fuel oil and less than 110 pounds per thousand gallons (lb/kgal) of waste oil. These limitations are equivalent to SO_2 emissions of 95.0 tons per year from the aggregate dryer burner. The SO_2 emissions for the entire source will therefore be limited to less than 100 tons per year. For the purpose of determining compliance with this limit, one gallon of waste oil shall be considered equivalent to 1.55 gallons of No. 2 fuel oil (644 gallons of waste oil per 1000 gallons of No. 2 fuel oil). Compliance with this limit will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

(b) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 86.1 tons of VOC emissions are emitted per twelve (12) consecutive month period with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent usage for any one selected binder to less than or equal to the stated limit in (2) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed 86.1 tons per twelve (12) consecutive month period.

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

(A) <u>Cut back asphalt rapid cure</u>, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.

(B) <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.

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

(D) <u>Emulsified asphalt with solvent</u>, 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) <u>Other asphalt with solvent binder</u>, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating

(2) The liquid binder used in cold mix asphalt production shall be limited as follows:

(A) Cutback asphalt rapid cure liquid binder usage shall not exceed 90.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(B) Cutback asphalt medium cure liquid binder usage shall not exceed 123 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(C) Cutback asphalt slow cure liquid binder usage shall not exceed 344.4 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(D) Emulsified asphalt with solvent liquid binder usage shall not exceed 185.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(E) Other asphalt with solvent liquid binder shall not exceed 3,444 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

(F) When more than one type of binder is used per twelve (12) month consecutive period, the total usage of all binders shall be limited so that the total potential to emit VOC is less than or equal to 86.1 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment factor listed in the table that follows.

$$\text{VOC Emitted (tons/yr)} = \frac{\text{VOC solvent used for each binder (tons/year)}}{\text{Adjustment factor}}$$

Type of Binder	**VOC Solvent Used (tons/year)**	**Adjustment Factor**	**VOC Emitted (tons/year)**
Cutback Asphalt Rapid Cure		1.053	
Cutback Asphalt Medium Cure		1.429	
Cutback Asphalt Slow Cure		4.0	
Emulsified Asphalt		2.155	
Other Asphalt		40.0	

Compliance with these limits, combined with the emissions and limits of other units at this source, will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

(c) Pursuant to 326 IAC 2-8-4, the emissions of PM10, CO, NO_x and VOC from the aggregate dryer/mixer shall be limited as follows:

(1) The asphalt production rate shall be limited to less than 495,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) PM10 emissions from the aggregate dryer/mixer shall be limited to less than 0.3149 pounds of PM10 per ton of asphalt produced.

(3) CO emissions from the aggregate dryer/mixer shall be limited to less than 0.40 pounds of CO per ton of asphalt produced.

(4) NO_x emissions from the aggregate dryer/mixer shall be limited to less than 0.12 pounds of NO_x per ton of asphalt produced when combusting No. 2 fuel oil or waste oil. When combusting natural gas, the potential to emit NOx from the entire source is less than 100 tons per year; therefore, a NOx limit is not necessary when burning natural gas.

(5) VOC emissions from the aggregate dryer/mixer shall be limited to less than 0.0082 pounds of VOC per ton of asphalt produced.

These limits are equivalent to PM10 emissions of less than 77.9 tons per year, CO emissions of less than 99.0 tons per year, NO_x emissions of less than 29.7 tons per year (when combusting No. 2 fuel oil or waste oil), and VOC emissions of less than 2.03 tons per year from the aggregate dryer/mixer. Compliance with these limits, combined with the emissions from all other emission units at this source, will render 326 IAC 2-7 (Part 70 Permit Program) and 326 IAC 2-2 (PSD) not applicable.

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

(1) The chlorine content of the waste oil used in the 96.8 MMBtu per hour burner for the aggregate dryer shall not exceed seventeen hundredths of a percent (0.17%) by weight.

(2) The usage of waste oil in the 96.8 MMBtu per hour burner for the aggregate dryer shall be limited to 1,723,000 U.S. gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(3) The HCl emissions from the 96.8 MMBtu per hour burner for the aggregate dryer shall be limited to less than 11.2 pounds of HCl per 1,000 gallons of waste oil burned.

These limits are required in order to limit the source-wide emissions of HCl to less than 10 tons per year. Compliance with these limits will also limit source-wide emissions of combined HAPs to less than 25 tons per year. Therefore, compliance with these limits will render 326 IAC 2-7 (Part 70) not applicable.

(e) Pursuant to 326 IAC 2-8, the Permittee shall sweep paved roads as needed and spray water on unpaved areas as needed in order to control PM and PM10 emissions from paved and unpaved roads.

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

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit (PTE) 10 tons per year of any HAP or 25 tons per year of any combination of HAPs, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). This source has agreed to limit single and total HAP emissions less than 10 and 25 tons per year, respectively, and was constructed prior to the rule applicability date of July 27, 1997; therefore it is not subject to the requirements of this rule.

State Rule Applicability – Aggregate Dryer/Mixer

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the aggregate dryer/mixer shall not exceed 63.0 pounds per hour when operating at a process weight rate of 600,000 pounds per hour. The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for process weight rates 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

The baghouse shall be in operation at all times the aggregate dryer/mixer is in operation, in order to comply with this limit.

326 IAC 7-1.1-2 (Sulfur Dioxide (SO_2) Emission Limitations)

The aggregate dryer/mixer is subject to the requirements of 326 IAC 7-1.1-2, because it has potential sulfur dioxide emissions greater than twenty-five (25) tons per year. Pursuant to 7-1.1-2, sulfur dioxide emissions from the aggregate dryer/mixer shall be limited as follows:

(a) One and six-tenths (1.6) pounds per MMBtu for residual oil combustion, and

(b) Five-tenths (0.5) pound per MMBtu for distillate oil combustion.

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

The aggregate dryer/mixer was constructed prior to January 1, 1980. Therefore, the aggregate dryer/mixer is not subject to the requirements of 326 IAC 8-1-6.

State Rule Applicability - Cold Mix Asphalt Production

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

The aggregate dryer/mixer was constructed in Adams County in 1967, which is prior to the January 1, 1980 applicability date for this rule. Therefore, 326 IAC 8-5-2 does not apply.

State Rule Applicability – Batch Tower

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the batch tower shall not exceed 63.6 pounds per hour when operating at a process weight rate of 630,000 pounds 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

The unlimited potential particulate emissions from the batch tower are less than 63.6 pounds per hour (see TSD Appendix A, page 7). Therefore, the Permittee is able to comply with this rule.

State Rule Applicability – Material Conveying and Handling

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

Pursuant to 326 IAC 6-3-2, the allowable particulate emission rate from the material conveying and handling operation shall not exceed 63.6 pounds per hour when operating at a process weight rate of 630,000 pounds 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

The unlimited potential particulate emissions from the material conveying and handling operation are less than 63.6 pounds per hour (see TSD Appendix A, page 7). Therefore, the Permittee is able to comply with this rule.

State Rule Applicability – Storage Tanks

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)
This source is located in Adams County and the storage tanks were constructed prior to January 1, 1980. Therefore, the storage tanks are not subject to the requirements of 326 IAC 8-4-3.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
This source is located in Adams County; therefore, the storage tanks are not subject to the requirements of 326 IAC 8-9.

State Rule Applicability – RAP System

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the RAP system including the feed bin, lump breaker, and conveyor system, is not subject to the requirements of 326 IAC 6-3 because it has potential particulate emissions less than five hundred fifty-one thousandths (0.551) pound per hour.

Compliance Determination and Monitoring 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:

Emission Unit	Control Device	Timeframe for Testing	Pollutant	Frequency of Testing	Limit or Requirement
Aggregate Dryer/Mixer	Baghouse	60/180 days	PM/PM10	Once every 5 years	0.362 pounds of PM/PM10 per ton of asphalt produced

Control	Parameter	Frequency	Range	Excursions and Exceedances
Aggregate Dryer/Mixer Baghouse	Water Pressure Drop	Daily	2 to 6 inches	Response Steps
	Visible Emissions		Normal-Abnormal	

These monitoring conditions are necessary because the baghouse for the aggregate dryer/mixer must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), 326 IAC 2-8 (FESOP), and 326 IAC 2-2 (Prevention of Significant Deterioration).

Recommendation

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

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

An application for the purposes of this review was received on February 23, 2007. Additional information was received on May 2, 2007.

Conclusion

The operation of this stationary batch hot-mix asphalt plant shall be subject to the conditions of the attached New Source Review and FESOP Renewal No. 001-24364-00058.

Appendix A: Emission Calculations
Aggregate Dryer/Mixer - Natural Gas

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Maximum Throughput Capacity (tons/hr)	Maximum Burner Capacity (MMBtu/hr)	Potential Throughput (MMscf/yr)
300	96.8	831

1. PTE Using AP-42, Chapter 1.4

		PM*	PM10*	SO_2	NOx**	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4 (7/98).	Emission Factor (lb/MMscf)	1.9	7.6	0.6	100	5.5	84.0	1.8	1.89
	PTE (tons/yr)	0.79	3.16	0.25	41.6	2.29	34.9	0.75	0.79

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 11.1, Tables 11.1, 11.1-5, 11.1-6, 11.1-9, 11.1-11 (3/04)	Emission Factor (lb/ton)	32.0	4.5	0.0046	0.025	0.0082	0.40	0.0027	0.01
	PTE (tons/yr)	42,048	5,913	6.04	32.9	10.8	526	3.55	10.0

3. Worst Case PTE for Natural Gas Combustion

	PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPs
Worst Case PTE When Burning Natural Gas (tons/yr)***	42,048	5,913	6.04	41.6	10.8	526	3.55	10.0

* PM emission factor from AP-42, Chapter 1.4 is for filterable PM only. PM10 emission factor is filterable and condensable PM combined.
**Emission factor for NOx (Uncontrolled) = 100 lb/MMscf.
*** When burning natural gas, the worst case PTE emission factors for PM, PM10, SO_2, VOC, CO, and HAPs are from AP-42, Chapter 11.1; the worst case PTE emission factor for NOx is from AP-42, Chapter 1.4.

Methodology
Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu
PTE (tons/yr) (AP-42, Chapter 1.4) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs
PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Aggregate Dryer/Mixer - No. 2 Fuel Oil

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Maximum Throughput Capacity (tons/hr)	Maximum Burner Capacity (MMBtu/hr)	Potential Throughput (kgal/yr)	Weight % Sulfur (%)
300	96.8	6,057	0.50

1. PTE Using AP-42, Chapter 1.3

		PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Organic HAPs	Metals
AP-42, Chapter 1.3, Tables 1.3-1, 1.3-2, 1.3-3, 1.3-9, and 1.3-11 (9/98)	Emission Factor (lb/kgal)	2.0	3.3	71.0 *(142 S)*	20	0.34	5.0	0.061	0.07	4.90E-05 *(lb/MMBtu)*
	PTE (tons/yr)	6.06	9.99	215	60.6	1.03	15.1	0.18	0.21	0.02

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 11.1, Tables 11.1, 11.1-5, 11.1-6, 11.1-9, 11.1-11 (3/04)	Emission Factor (lb/ton)	32.0	4.5	0.088	0.12	0.0082	0.40	0.0027	0.01
	PTE (tons/yr)	42,048	5,913	116	158	10.8	526	3.55	10.0

3. Worst Case PTE for No. 2 Fuel Oil Combustion*

	PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPs
Worst Case PTE When Burning No. 2 Fuel Oil (tons/yr)	42,048	5,913	215	158	10.8	526	3.55	10.0

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

* When burning No. 2 fuel oil, the worst case PTE emission factors for PM, PM10, NOx, VOC, CO, and HAPs are from AP-42, Chapter 11.1; the worst case PTE emission factor for SO_2 is from AP-42, Chapter 1.3.

Methodology

Potential Throughput (kgals/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu
Potential to Emit (tons/yr) (AP-42, Chapter 1.3) = Potential Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2,000 lbs
PTE (tons/yr) (AP-42, Chapter 11.1) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Aggregate Dryer/Mixer - Waste Oil

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Maximum Throughput Capacity (tons/hr)	Maximum Burner Capacity (MMBtu/hr)	Potential Throughput (kgal/yr)	Weight % Sulfur (%)	Weight % Ash (%)	Weight % Chlorine (%)
300	96.8	7,066	0.75	0.7	0.17

1. PTE Using AP-42, Chapter 1.11

		PM	PM10	SO_2	NOx	VOC	CO	Single HAP (HCl)	Total HAPs
AP-42, Chapter 1.11, Tables 1.11-1, 1.11-2, 1.11-3, 1.11-4, and 1.11-5 (10/96)	Emission Factor (lb/kgal)	44.8 *(64 A)*	35.7 *(51 A)*	110 *(147 S)*	19	1.0	5.0	11.2 *(66 C)*	11.4
	PTE (tons/yr)	158	126	390	67.1	3.53	17.7	39.6	40.4

2. PTE Using AP-42, Chapter 11.1

		PM	PM10	SO_2	NOx	VOC	CO	Single HAP	Total HAPs
AP-42, Chapter 11.1, Tables 11.1, 11.1-5, 11.1-6, 11.1-9, 11.1-11 (3/04)	Emission Factor (lb/ton)	32.0	4.5	0.088	0.12	0.036	0.40	0.0027	0.01
	PTE (tons/yr)	42,048	5,913	116	158	47.3	526	3.55	10.1

3. Worst Case PTE for Waste Oil Combustion*

	PM	PM10	SO_2	NOx	VOC	CO	Single HAP (HCl)	Total HAPs
Worst Case PTE When Burning Waste Oil (tons/yr)	42,048	5,913	390	158	47.3	526	39.6	40.4

1 gallon of waste oil has a heating value of 120,000 Btu

* When burning waste oil, the worst case PTE emission factors for PM, PM10, NOx, VOC, and CO are from AP-42, Chapter 11.1; the worst case PTE emission factors for SO_2 and HAPs are from AP-42, Chapter 1.11.

Methodology

Potential Throughput (MMscf/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMscf/1,020 MMBtu
PTE (tons/yr) = Potential Throughput (MMscf/yr) x Emission Factor (lbs/MMscf) x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Aggregate Dryer/Mixer Limits

Company Name: **Meshberger Brothers Stone Corporation**
Address: **699 South County Road 500 East, Decatur, Indiana 46733**
FESOP #: **001-24364-00058**
Reviewer: **ERG/SE**
Date: **June 26, 2007**

Max Capacity (tons/hr)	Limited Capacity (tons/yr)
300	495,000

	Limited Emission Factor	Control Efficiency (%)
PM	0.3149	99.9%
PM10	0.3149	99.9%

Emission Factors (lbs/ton)	**PM**	**PM10**	**CO**	**NOx**	**VOC**
	32	4.5	0.4	0.12	0.036

Unlimited Potential to Emit (tons/yr)	**PM**	**PM10**	**CO**	**NOx**	**VOC**
	42,048	5,913	526	158	47.3

Limited Potential to Emit (tons/yr)	**PM**	**PM10**	**CO**	**NOx**	**VOC**
	77.9	77.9	99.0	29.7	8.91

Potential Controlled Emissions (tons/yr)	**PM**	**PM10**	**CO**	**NOx**	**VOC**
	50.5	7.10	99.0	29.7	8.91

See pages 3 and 4 of the appendix for emission estimates for the other pollutants of combustion from the aggregate dryer/mixer.
Uncontrolled emission factors are from AP-42 Chapter 11.1, Table 11.1-1 [3/04].

Methodology
Uncontrolled Potential to Emit (tons/yr) = Maximum Capacity (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs
Limited Potential to Emit (tons/yr) = Maximum Capacity (tons/hr) x Limited Emission Factor (lbs/ton) x 8760 hr/yr x 1ton/2000 lbs
Controlled Potential to Emit (tons/yr) = Potential Uncontrolled Emissions (tons/yr) x (1-Control Efficiency %)

Appendix A: Emission Calculations
Fuel Usage Limit Calculations

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Maximum Heat Input =	96.8 MMBtu/hr
Potential Emissions From Waste Oil in Tons/Year	
SO_2	390

SO_2 limit: 95 tpy

Potential Waste Oil Usage = (96.8 MMBtu/hr)*(8,760 hrs/yr)*(1 gal/0.12 MMBtu)*(1 kgal/1000 gal) = 7,066 kgal/yr

Fuel Useage Limit for Waste Oil = (95.0 tpy/390 tpy)*(7,066 kgal/yr) = 1,723 kgal/year

Maximum Heat Input =	96.8 MMBtu/hr
Potential Emissions From Fuel Oil #2 in Tons/Year	
SO_2	215

SO_2 limit: 95 tpy

Potential #2 usage = (96.8 MMBtu/hr)*(8,760 hrs/yr)*(1 gal/.14 MMBtu)*(1 kgal/1000 gal) = 6,057 kgal/yr

Fuel Useage Limit for #2 = (95.0 tpy/215 tpy)*(6,057 kgal/yr) = 2,676 kgal/year

Fuel equivalence for re-refined waste oil is determined from the limiting pollutant, SO_2, as follows:

$$\frac{71.0 \text{ lb/1000 gal}}{110.3 \text{ lb/1000 gal}} = 644$$

gallons per 1000 gallons No. 2 distillate oil (i.e., every 1000 gallons of No. 2 oil burned is equivalent to 644 gallons of waste oil burned, based on SO_2 emissions)

Appendix A: Emission Calculations
Potential to Emit Calculations for Unpaved Roads

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

1. Emission Factors: AP-42

According to AP-42, Chapter 13.2.2 - Unpaved Roads (11/06), the PM/PM10 emission factors for unpaved roads can be estimated from the following equation:

$$E = k \times (s/12)^a \times (w/3)^b \times ((365 - p)/365)$$

where:

E =	emission factor (lb/vehicle mile traveled)		
s =	surface material silt content (%) =	4.8	% Provided by Source
w =	mean vehicle weight (tons)	38.0	tons
k =	empirical constant =	4.9 for PM and 1.5 for PM10	
a =	empirical constant =	0.7 for PM and 0.9 for PM10	
b =	empirical constant =	0.45 for PM and PM10	
p =	number of days per year with 0.01 inches precipitation	125	

2. Potential to Emit (PTE) of PM/PM10 Before Control from Unpaved Roads:

Vehicle Type	Mean Vehicle Weight (tons)	Vehicle Miles Traveled (VMT)* (miles/yr)	PM Emission Factor (lbs/mile)	PM10 Emission Factor (lbs/mile)	**PTE of PM (tons/yr)**	**PTE of PM10 (tons/yr)**
Front End Loader	38.0	20,236	5.32	1.36	**53.8**	**13.7**

Methodology

VMT (miles/yr) = 30 round trips/hour x 0.077 miles/round trip x 8,760 hrs/yr
PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x PM/PM10 Emission Factors (lbs/mile) x 1 ton/ 2000 lbs

3. Potential to Emit (PTE) of PM/PM10 after Control from Unpaved Roads:

The control efficiency from the procedures in the Fugitive Dust Control Plan for unpaved roads is assumed to be 50%.

PTE of PM after Control =	53.8	tons/yr x (1-50%) =	**26.9 tons/yr**
PTE of PM10 after Control =	13.7	tons/yr x (1-50%) =	**6.86 tons/yr**

Appendix A: Emission Calculations
Potential to Emit from Conveying and Handling

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

1. Emission Factors: AP-42

According to AP-42, Chapter 13.2.4 - Aggregate Handling and Storage Piles (11/06), the PM/PM10 emission factors for aggregate handling for batch or continuous drop operations can be estimated from the following equation:

E = k (0.0032) x (U/5)^1.3 / (M/2)^1.4

where:

E =	emission factor (lbs/ton)	
k =	particle size multiplier =	0.74 for PM and 0.35 for PM10
M =	material moisture content (%) =	4.80 %
U =	mean wind speed =	15 mph

PM Emission Factor =	0.0029 lbs/ton
PM10 Emission Factor =	0.0014 lbs/ton

2. Potential to Emit (PTE) of PM/PM10 from Material Conveying and Handling:

Drop Point Description	Maximum Throughput Capacity (tons/hr)	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	**PTE of PM (tons/yr)**	**PTE of PM10 (tons/yr)**
Front End Loaders to Feeder Bins	315	0.0029	0.0014	**4.00**	**1.89**
Conveyor to Dryer	315	0.0029	0.0014	**4.00**	**1.89**
Dryer to Elevator	315	0.0029	0.0014	**4.00**	**1.89**
Elevator to Screens	315	0.0029	0.0014	**4.00**	**1.89**
Screens to Hot Aggregate Bins	315	0.0029	0.0014	**4.00**	**1.89**
Bins to Weigh Hopper	315	0.0029	0.0014	**4.00**	**1.89**
Weigh Hopper to Mixer	315	0.0029	0.0014	**4.00**	**1.89**
RAP to Storage Bins	45.0	0.0029	0.0014	**0.57**	**0.27**
			Total	**28.6**	**13.5**

Methodology:

PTE (tons/yr) = Maximum Throughput Capacity (tons/hr) x Emission Factor (lbs/ton) x 8,760 hrs/yr x 1 ton/2,000 lbs

Appendix A: Emission Calculations
Potential to Emit from Storage Piles

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

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

$$Ef = \frac{1.7*(s/1.5)*(365-p)}{235*(f/15)}$$

Material	s (% silt)	p	f	Emission Factor (lb/acre/day)
RAP	0.2	125	15	0.23

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

$$\text{PTE of PM (storage)} = \frac{Ef*sc*(20cuft/ton)*(365\ day/yr)}{(2000\ lb/ton)*(43560\ sqft/acre)*(12\ ft)}$$

Material	sc (tons storage capacity)	PTE of PM (tons/yr)
RAP	20,000	0.03
Total		**0.03**

PM-10 = 35% of PM:

Material	PTE of PM10 (tons/yr)
RAP	0.01
Total	**0.01**

Appendix A: Emission Calculations
Potential to Emit Calculations for RAP System

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Maximum Capacity:

45 tons/hr

	Breaker		Conveyor		**Total**	
	PM*	PM10*	PM	PM10	**PM**	**PM10**
Emission Factor in lb/ton	0.0054	0.0024	0.003	0.0011	N/A	N/A
Potential Emissions in tons/yr	1.06	0.47	0.59	0.22	**1.66**	**0.69**

Emission factors are from AP-42, Table 11.19.2-2 [8/04]

*PM and PM10 emission factors for Tertiary Crushing are used as an upper limit for the breaker.

Methodology:

Potential Emissions (tons/yr) = Maximum Capacity (tons/hr) x Emission Factor (lb/ton) x 8760 hrs/yr x 1 ton/2000 lbs

Appendix A: Emission Calculations
Emission Summary

Company Name: Meshberger Brothers Stone Corporation
Address: 699 South County Road 500 East, Decatur, Indiana 46733
FESOP #: 001-24364-00058
Reviewer: ERG/SE
Date: June 26, 2007

Unlimited PTE (tons/yr)

	PM	PM10	SO2	NOx	VOC	CO	Total HAPs	HCl
Aggregate Dryer/Mixer	42,048	5,913	390	158	47.3	526	40.4	39.6
Unpaved Roads	53.8	13.7	--	--	--	--	--	--
Material Conveying/Handlin	28.6	13.5	--	--	--	--	--	--
Storage Piles	0.03	0.01	--	--	--	--	--	--
RAP	1.66	0.69	--	--	--	--	--	--
Cold Mix Liquid Binders*	--	--	--	--	>250	--	--	--
Storage Tanks**					4.00			
Total	**42,132**	**5,941**	**390**	**158**	**>250**	**526**	**40.4**	**39.6**

Limited PTE (tons/yr)

	PM	PM10	SO2	NOx	VOC	CO	Total HAPs	HCl
Aggregate Dryer/Mixer***	77.9	77.9	95.0	41.6	8.91	99.0	<24.0	<9.90
Unpaved Roads	26.9	6.86	--	--	--	--	--	--
Material Conveying/Handlin	28.6	13.5	--	--	--	--	--	--
Storage Piles	0.03	0.01	--	--	--	--	--	--
RAP	1.66	0.69	--	--	--	--	--	--
Cold Mix Liquid Binders	--	--	--	--	86.1	--	--	--
Storage Tanks**					4.00			
Total	**135**	**99.0**	**95.0**	**41.6**	**99.0**	**99.0**	**<25.0**	**<10.0**

*As a worst case scenario, it is assumed that the production of cold mix asphalt using liquid binders will have a potential to emit VOC greater than 250 tons per year.
The permit includes limits to keep the VOC emissions from the entire source less than 250 tons per year.

**As a worst case scenario, it is assumed that each of the four storage tanks at this source have the potential to emit 1.00 ton per year of VOC.

***The limited PTE of NOx from the aggregate dryer/mixer shown in the table above represents the potential to emit when burning natural gas.
The permit does not include a limit for NOx emissions from the aggregate dryer/mixer when burning natural gas.
The NOx emission limit included in the permit for the aggregate dryer/mixer when burning No. 2 fuel oil or waste oil will limit Nox emissions to less than 41.6 tons per year.