INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: August 28, 2007

RE: Louisville Paving Co./Commercial Pavers / F019-24738-00127

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot 03/23/06

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Indianapolis, Indiana 46204-2251
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New Source Construction and Federally Enforceable State Operating Permit
OFFICE OF AIR QUALITY

Louisville Paving Company Inc./Commercial Pavers
200 Willinger Lane
Jeffersonville, Indiana 47130

(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.

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.: F019-24738-00127	
Issued by: *Original signed by* Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: August 28, 2007 Expiration Date: August 28, 2012

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SECTION A SOURCE SUMMARY

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

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

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

Source Address:	200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address:	1801 Payne Street, Louisville, KY 40206
General Source Phone Number:	(502) 583-1726
SIC Code:	2951
County Location:	Clark
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

(a) one (1) aggregate drum dryer/mixer, identified as emission unit No. 1, approved for construction in 2007, with a maximum capacity of 300 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer/mixer burner with a maximum rated capacity of 100 million (MM) British thermal units (Btu) per hour using No. 2 distillate fuel oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting at one (1) stack, identified as S-1;

(b) Feeding, conveying and loading operations, processing a maximum of 300 tons per hour, consisting of;

(1) one (1) collecting conveyor, approved for construction in 2007;

(2) one (1) RAP conveyor, approved for construction in 2007;

(3) one (1) transfer conveyor, approved for construction in 2007;

(c) one (1) screen, approved for construction in 2007;

(d) Two (2) 20,000 gallon liquid asphalt storage tanks (ID No. T-01 and T-02), approved for construction in 2007;

(e) One (1) 15,000 gallon fuel oil storage tank (ID No. T-03), approved for construction in 2007;

(f) One (1) 10,000 gallon fuel oil storage tank (ID No. T-04), approved for construction in 2007;

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

This stationary source also includes the following insignificant activities:

(a) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 2, approved for construction in 2007, rated at 1.0 MMBtu per hour, exhausting fugitively.

(b) one (1) asphalt storage silo, with a maximum capacity of 200 tons, approved for construction in 2007;

(c) five (5) cold aggregate bins five, each with a maximum capacity of 15 tons, approved for construction in 2007;

(d) Sand, crushed stone and reclaimed asphalt pavement storage piles with a maximum total storage capacity of 6,000 tons; and

(e) Paved roadways [326 IAC 6-4].

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) for 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 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4][326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and [326 IAC 2-8] when prior to the start of operation, the following requirements are met:

(a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.

(b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.

(c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

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

(a) This permit, F019-24738-00127, 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.5 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.6 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.7 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.8 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.9 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.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

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

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

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

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

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 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.12 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.13 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 prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, 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.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date 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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with ahealth-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.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

(a) All terms and conditions of permits established prior to F019-24738-00127 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.16 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.17 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.18 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.19 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.20 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.21 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.22 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.23 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.24 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.25 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.26 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

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

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

B.27 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] [326 IAC 2-3]

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

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

(2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per 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 thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on May 18, 2007. The plan is included as Attachment A.

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

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

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

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

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

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

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

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
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.10 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 than180 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.11 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented 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.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

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

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

(b) The Permittee may request that 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.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(1) initial inspection and evaluation;

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

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

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

(1) monitoring results;

(2) review of operation and maintenance procedures and records; 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.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred 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.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

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

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

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by 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) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

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

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

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

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) one (1) aggregate drum dryer/mixer, identified as emission unit No. 1, approved for construction in 2007, with a maximum capacity of 300 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer/mixer burner with a maximum rated capacity of 100 million (MM) British thermal units (Btu) per hour using No. 2 distillate fuel oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting at one (1) stack, identified as S-1; and

(b) Feeding, conveying and loading operations, processing a maximum of 300 tons per hour, consisting of:

(1) one (1) collecting conveyor, approved for construction in 2007;

(2) one (1) RAP conveyor, approved for construction in 2007;

(3) one (1) transfer conveyor, approved for construction in 2007;

(c) one (1) screen, approved for construction in 2007;

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

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

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

Pursuant to 40 CFR 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated by reference as 326 IAC 12-1, for the aggregate dryer/mixer in accordance with the schedule in 40 CFR 60, Subpart A.

D.1.2 NSPS, Requirements [40 CFR Part 60, Subpart I] [326 IAC 12-1]

Pursuant to CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the aggregate dryer/mixer as specified as follows:

§ 60.90 Applicability and designation of affected facility.

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

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

§ 60.91 Definitions.

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

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

§ 60.92 Standard for particulate matter.

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

(1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).

(2) Exhibit 20 percent opacity, or greater.

§ 60.93 Test methods and procedures.

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

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

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

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

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

D.1.3 PSD Minor Limit [326 IAC 2-2]

(a) Particulate matter emissions from the aggregate dryer/mixer shall not exceed 0.245 pound PM per ton of hot mix asphalt produced; and

(b) The amount of hot mix asphalt produced in the drum dryer/mixer shall not exceed 1,483,387 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

This limits total source wide PM emissions to less than 250 tons per year. Therefore, compliance with this limit will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

Pursuant to 326 IAC 2-8-4, the following shall apply:

(a) PM_{10} emissions from the aggregate dryer/mixer shall not exceed 0.103 pound PM_{10} per ton of hot mix asphalt produced; and

(b) The amount of hot mix asphalt produced in the drum dryer/mixer shall not exceed 1,483,387 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

This limits the source wide potential to emit PM_{10} to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 (FESOP) and will render the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

Pursuant to 326 IAC 2-8-4, the following shall apply:

(a) CO emissions from the drum dryer/mixer shall not exceed 0.13 pound of CO per ton of hot mix asphalt produced; and

(b) The amount of hot mix asphalt produced in the drum dryer/mixer shall not exceed 1,483,387 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

This limits total source-wide CO emissions to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and PSD (326 IAC 2-2) not applicable.

D.1.6 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

(a) VOC emissions from the drum dryer/mixer shall not exceed 0.032 pound of VOC per ton of hot mix asphalt produced; and

(b) The amount of hot mix asphalt produced in the drum dryer/mixer shall not exceed 1,483,387 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

This will limit VOC emissions from the drum dryer/mixer to less than 25 tons per year. Compliance with this limit will render the requirements of 326 IAC 8-1-6 not applicable to this facility.

D.1.7 Sulfur Dioxide (SO_2) [326 IAC 7-1.1] [326 IAC 7-2-1]

(a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 100 million Btu per hour burner for the aggregate dryer/mixer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.5% by weight when using distillate oil.

(b) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 100 million Btu per hour burner for the aggregate dryer/mixer shall be limited to 1.6 pounds per million Btu heat input or a sulfur content of less than or equal to 1.5 percent by weight when using re-refined waste oil. The source has accepted a sulfur content limit of 1.0 percent for re-refined waste oil.

(c) Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.8 Sulfur Dioxide (SO_2) Emissions [326 IAC 2-8-4] [326 IAC 2-2]

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

(a) The sulfur content of the re-refined waste oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1.0 percent by weight.

(b) The sulfur content of the No. 2 distillate oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 0.5 percent by weight.

(d) The usage of re-refined waste oil and re-refined waste oil equivalents in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1,329,601 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, SO_2 emissions are limited to less than 100 tons per year.

(e) For the purposes of determining compliance, every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 523 gallons of waste oil based on SO_2 emissions, such that the total gallons of waste oil and waste oil equivalent input does not exceed the limit specified.

Compliance with these limits will limit source-wide SO_2 emissions to less than 100 tons per year and shall also render the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.9 Hydrogen Chloride (HCl) Emissions [326 IAC 2-8-4] [326 IAC 2-4.1]

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

(a) the chlorine content of the re-refined waste oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 0.065 percent by weight.

(b) The usage of re-refined waste oil and re-refined waste oil equivalents in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1,329,601 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/mixer shall be limited to less than 4.3 pounds of HCl per 1,000 gallons of re-refined waste oil burned.

These limits are required 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) and 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants) not applicable

D.1.10 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.11 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

(a) Within sixty (60) days after achieving maximum capacity, but not later than one hundred and eighty (180) days after startup, in order to demonstrate compliance with Conditions D.1.2, D.1.3, and D.1.4 the Permittee shall perform PM and PM_{10} testing for the aggregate drum dryer/mixer utilizing methods as approved by the Commissioner. PM_{10} includes filterable and condensable particulate matter.

(b) Opacity testing utilizing 40 CFR Part 60 Appendix A, Method 9, to demonstrate compliance with the opacity limitation of Condition D.1.2.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.12 Sulfur Dioxide Emissions, Sulfur Content, Chlorine Content

(a) The Permittee shall demonstrate that the chlorine content of the re-refined waste oil does not exceed 0.065% by weight by providing vendor analysis of fuel delivered, accompanied by a vendor certification.

Compliance for sulfur dioxide shall be determined utilizing one of the following options.

(b) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed 0.5 pounds per million Btu heat input when burning No. 2 distillate fuel oil and 1.6 pounds per million Btu heat input when burning re-refined waste oil 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.

(c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 100 MMBtu per hour burner for the aggregate dryer/mixer, 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 (b) through (c) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.12 Particulate Matter (PM and PM_{10})

In order to comply with Conditions D.1.2, D.1.3, and D.1.4, the baghouse for particulate control shall be in operation and control emissions from the aggregate dryer/mixer at all times that the aggregate dryer/mixer is in operation.

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

D.1.13 Visible Emissions Notations

(a) Visible emission notations of the aggregate dryer/mixer, baghouse stack exhaust and the conveying, screening, and material transfer points shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(a) 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.

(b) 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.

(c) 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.1.14 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the drum dryer/mixer, at least once per day when the drum dryer/mixer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit

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

D.1.15 Broken or Failed Bag Detection

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

(b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the 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.

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

D.1.16 Record Keeping Requirements

(a) To document compliance with conditions D.1.3, D.1.4, D.1.5 and D.1.6, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly and shall be complete and sufficient to establish compliance with the annual throughput limits to the aggregate dryer/mixer established in conditions D.1.3, D.1.4, D.1.5 and D.1.6.

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

(2) The amount of hot mix asphalt produced in the drum dryer/mixer per month since the last compliance determination period.

(b) To document compliance with Conditions D.1.7, D.1.8 and D.1.9, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) below shall be complete and sufficient to establish compliance with the SO_2 emission limits established in Conditions D.1.7, and D.1.8 and the HCl emission limit established in Condition D.1.9.

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

(2) Actual waste oil and waste oil equivalent usage per month since last compliance determination period and equivalent SO_2 and HCl 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.

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

(5) Fuel supplier certifications.

(6) The name of the fuel supplier; and

(7) A statement from the fuel supplier that certifies the sulfur content and chlorine content of the fuel oil.

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

(c) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in condition D.1.11(a) or D.1.11(b) if applicable. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM.

(d) To document compliance with Condition D.1.13, the Permittee shall maintain daily records of visible emission notations of the aggregate dryer/mixer, burner baghouse stack exhaust and the conveying, screening and material transfer points. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(e) To document compliance with Condition D.1.14, the Permittee shall maintain daily records of the pressure drop across the baghouse controlling the drum dryer/mixer. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the 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.1.17 Reporting Requirements

A quarterly summary of the information to document compliance with conditions D.1.3, D.1.4, D.1.5, D.1.6 and D.1.8 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an “authorized individual” as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(a) Two (2) 20,000 gallon liquid asphalt storage tanks (ID No. T-01 and T-02), approved for construction in 2007;

(b) One (1) 15,000 gallon fuel oil storage tank (ID No. T-03), approved for construction in 2007;

(c) One (1) 10,000 gallon fuel oil storage tank (ID No. T-04), approved for construction in 2007;

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

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

D.2.1 Volatile Organic Compounds (VOC) [326 IAC 8-9-6]

(a) The owner or operator of tanks T-01, T-02, T-03 and T-04 shall maintain the records required by paragraph (b) for the life of the vessel.

(b) The owner or operator of tanks T-01, T-02, T-03 and T-04 shall maintain a record and submit to the department a report containing the following information for each vessel:

(1) The vessel identification number.

(2) The vessel dimensions.

(3) The vessel capacity.

(4) A description of the emission control equipment for each vessel.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Address: 200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address: 1801 Payne Street, Louisville, KY 40206
FESOP Permit No.: F019-24738-00127

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

Please check what document is being certified:

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Address: 200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address: 1801 Payne Street, Louisville, KY 40206
FESOP Permit No.: F019-24738-00127

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

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

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

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

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

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

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

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Address: 200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address: 1801 Payne Street, Louisville, KY 40206
FESOP Permit No.: F019-24738-00127
Facility: Drum dryer/mixer
Parameter: Hot Mix Asphalt (HMA) Production
Limit: The amount of hot mix asphalt produced in the drum dryer/mixer shall not exceed 1,483,387 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR:_____

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Address: 200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address: 1801 Payne Street, Louisville, KY 40206
FESOP Permit No.: F019-24738-00127
Facility: 100 MMBtu per hour aggregate dryer/mixer burner
Parameter: Re-refined waste oil usage
Limit: The input of re-refined waste oil in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1,329,601 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. For the purposes of determining compliance, every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 523 gallons of waste oil based on SO_2 emissions, such that the total gallons of waste oil and waste oil equivalent input does not exceed the limit specified.

YEAR:_____

Month	Column 1	Column 2	Column 1 + Column 2
	Re-refined Waste Oil Usage (gallons) This Month	Re-refined Waste Oil Usage (gallons) Previous 11 Months	Re-refined Waste Oil Usage (gallons) 12 Month Total
Month 1			
Month 2			
Month 3			

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Address: 200 Willinger Lane, Jeffersonville, Indiana 47130
Mailing Address: 1801 Payne Street, Louisville, KY 40206
FESOP Permit No.: F019-24738-00127

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 ANo deviations occurred this reporting period@.	
☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed by:_____

Title / Position:_____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

ATTACHMENT A

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

Fugitive particulate matter emissions from paved roads and parking lots shall be controlled by treating with water as needed.

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

(1) maintaining minimum size and number of stock piles of aggregate;

(2) minimizing drop distances; and

(3) treating stockpiles and/or around the stockpile area with water.

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

(1) negative pressure fugitive dust ducts on various parts of the plant connecting to the bag house;

(2) minimize the vehicular distance between transfer points; and

(3) apply water on transfer points on an as needed basis.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Description and Location

Source Name: Louisville Paving Company Inc./Commercial Pavers
Source Location: 200 Willinger Lane, Jeffersonville, IN 47130
County: Clark
SIC Code: 2951
Operation Permit No.: F019-24738-00127
Permit Reviewer: Julia Handley/EVP

The OAQ has received an application from Louisville Paving Company Inc./Commercial Pavers related to the construction of a new stationary hot mix asphalt plant.

Existing Approvals

There have been no previous approvals issued to this source.

County Attainment Status

The source is located in Clark County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO_2	Attainment
NO_2	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

(a) Clark County has been classified as nonattainment for PM2.5 in 70 FR 943, dated January 5, 2005. Until U.S. EPA adopts specific New Source Review rules for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the Nonattainment New Source Review requirements. 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. Clark County has been designated as nonattainment for ozone. Therefore, VOC emissions and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

(c) Clark 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
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, however, there is an applicable New Source Performance Standard that was in effect on August 7, 1980, therefore fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Description of New Source Construction

The Office of Air Quality (OAQ) has reviewed a new source review application, submitted by Louisville Paving Company Inc./Commercial Pavers on May 7, 2007, relating to the construction of a stationary hot mix asphalt plant. The following is a list of the proposed emission units and pollution control devices:

(a) one (1) aggregate drum dryer/mixer, identified as emission unit No. 1, approved for construction in 2007, with a maximum capacity of 300 tons per hour, equipped with one (1) re-refined waste oil fired aggregate dryer/mixer burner with a maximum rated capacity of 100 million (MM) British thermal units (Btu) per hour using No. 2 distillate fuel oil as a back-up fuel and one (1) baghouse for air pollution control, exhausting at one (1) stack, identified as S-1;

(b) Feeding, conveying and loading operations, processing a maximum of 300 tons per hour, consisting of;

(1) one (1) collecting conveyor, approved for construction in 2007;

(2) one (1) RAP conveyor, approved for construction in 2007;

(3) one (1) transfer conveyor, approved for construction in 2007;

(c) one (1) screen, approved for construction in 2007;

(d) Two (2) 20,000 gallon liquid asphalt storage tanks (ID No. T-01 and T-02), approved for construction in 2007;

(e) One (1) 15,000 gallon fuel oil storage tank (ID No. T-03), approved for construction in 2007;

(f) One (1) 10,000 gallon fuel oil storage tank (ID No. T-04), approved for construction in 2007;

(g) one (1) No. 2 distillate fuel oil fired hot oil heater, identified as emission unit No. 2, approved for construction in 2007, rated at 1.0 MMBtu per hour, exhausting fugitively;

(h) one (1) asphalt storage silo, with a maximum capacity of 200 tons, approved for construction in 2007;

(i) five (5) cold aggregate bins five, each with a maximum capacity of 15 tons, approved for construction in 2007;

(j) Sand, crushed stone and reclaimed asphalt pavement storage piles with a maximum total storage capacity of 6,000 tons; and

(k) Paved roadways [326 IAC 6-4].

Enforcement Issues

There are no pending enforcement actions.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
S-1	Aggregate dryer/mixer	30	2.5 x 3.25	60,000	270

Emission Calculations

See Appendix A of this document for detailed emission calculations.

Permit Level Determination – Unrestricted Potential Emissions

Pursuant to 326 IAC 2-7-1(29), Potential to Emit is defined as "the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency."

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

HAPs	Unrestricted Potential Emissions (tons/yr)
Acetaldehyde	Less than 10
Acrolein	Less than 10
Arsenic	Less than 10
Benzene	Less than 10
Beryllium	Less than 10
Cadmium	Less than 10
Chromium	Less than 10
Cobalt	Less than 10
Ethyl benzene	Less than 10
Formaldehyde	Less than 10
HCl	Greater than 10
Hexane	Less than 10
Lead	Less than 10
Manganese	Less than 10
Methyl chloroform	Less than 10
Mercury	Less than 10
Nickel	Less than 10
Propionaldehyde	Less than 10
Quinone	Less than 10
Selenium	Less than 10
2,2,4 Trimethylpentane	Less than 10
Toluene	Less than 10
Total PAH	Less than 10
Xylene	Less than 10
Total	Greater than 25

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	Greater than 250
PM-10	Greater than 250
SO_2	Greater than 250
VOC	Less than 100
CO	Greater than 100, Less than 250
NO_x	Less than 100

(a) The unrestricted potential emissions of PM10, VOC, CO and SO_2 are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

(b) The unrestricted potential emissions of any single HAP is equal to or greater than ten (10) tons per year and the unrestricted potential emissions of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.

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

Permit Level Determination – FESOP

The source has opted to become a FESOP source. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit 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	PM-10	SO_2	VOC	CO	NO_x	Ind. HAPs	Combined HAPs
aggregate dryer/mixer and burner	181.74(1)	76.12(2)	97.73	23.73	96.42	30.52	2.85(3)	8.36
hot oil heater	0.06	0.10	2.17	0.01	0.16	0.63	Negl.	Negl
conveying / handling	14.53	6.87	--	--	--	--	--	--
screening	32.85	11.43	--	--	--	--	--	--
paved roads(5)	18.28	3.57	--	--	--	--	--	--
Storage	0.98	0.34	--	--	--	--	--	--
load-out & silo filling	1.46	1.46	--	21.20	3.32	--	0.21(4)	0.38
Total Emissions	245.00	99.90	99.00	44.90	99.90	31.15	<10	<25

(1) Maximum allowable PM emissions for 326 IAC 2-2 (PSD) avoidance.
(2) Maximum allowable PM10 emissions in order to comply with 326 IAC 2-8 (FESOP).
(3) Largest single HAP from aggregate dryer/mixer and burner is HCl with a PTE of 2.85 tons per year.
(4) Largest single HAP from load-out and silo filling is Formaldehyde with a PTE of 0.21 tons per year.
(5) Emissions after practically enforceable controls

This source is a minor source pursuant to the Part 70 Permit program. A FESOP will be issued.

Federal Rule Applicability Determination

The following federal rules are applicable to the source:

(a) This stationary drum hot mix asphalt plant, approved for construction in 2007, is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.90, Subpart I) because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973. This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity.

The source will be able to comply with this rule by using baghouse to limit particulate matter emissions from the drum dryer/mixer to less than 0.04 gr/dscf.

The aggregate drum dryer/mixer is subject to the following portions of 40 CFR 60, Subpart I:

(1) 40 CFR 60.90.
(2) 40 CFR 60.91.
(3) 40 CFR 60.92.
(4) 40 CFR 60.93.

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

(b) The one (1) 10,000 gallon fuel oil storage tank, identified as T-04, and the one (1) 15,000 gallon fuel oil storage tank, identified as T-03, are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" because each tank has a storage capacity less than 75 cubic meters (m^3) (19,813 gallons). Therefore pursuant to 40 CFR 60.110b(a), they are not subject to this rule and the requirements of this rule are not included in the permit for these facilities.

(c) The two (2) 20,000 gallon storage tanks, identified as T-01 and T-02, are not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels". Each storage tank has a capacity greater than 75 m^3 (19,813 gallons) but less than 151 m^3 (39,890 gallons) and the liquid stored in the tank has a maximum true vapor pressures of less than 15.0 kPa. Therefore, pursuant to 40 CFR 60.110b(b), these tanks are exempt from this rule and the requirements of this rule are not included in the permit for these tanks.

(d) The asphalt plant is not subject to the New Source Performance Standard 326 IAC 12 (40CFR 60.670 through 60.676, Subpart OOO) "Standards of Performance for Nonmetallic Mineral Processing Plants" for recycled asphalt pavement (RAP) usage since the RAP is received onsite ready-to-use, and there is no crushing or grinding of the RAP prior to loading into the first storage silo/bin. Therefore, the requirements of this rule were not included in the permit.

(e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) included in the permit for this source, because it is not a major source of HAP emissions.

(f) The requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not included in this permit. These requirements apply to a Part 70 source that involves a pollutant-specific emissions unit (PSEU), as defined in 40 CFR 64.1, which meets the following criteria:

(1) The unit is subject to an emission limitation or standard for an applicable regulated air pollutant;

(2) The unit uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard; and

(3) The unit has a potential to emit before controls equal to or greater than the applicable Part 70 major source threshold for the regulated pollutant.

As a FESOP source, this source has accepted federally enforceable limits such that the requirements of 326 IAC 2-7 (Part 70) do not apply. Therefore, the requirements of 40 CFR 64, Compliance Assurance Monitoring, are not applicable to this source.

State Rule Applicability Determination – Entire Source

The following state rules are applicable to the source:

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

This source, approved for construction in 2007, after the applicability date of August 7, 1977, is not considered a major source because it is not one of the 28 listed source categories and shall continue to limit criteria pollutant emissions to less than 250 tons per year as follows. Particulate matter emissions from the aggregate dryer/mixer shall not exceed 0.245 pounds of PM per ton of asphalt mix based on a maximum throughput of 1,483,387 tons of asphalt mix per year. This is equivalent to 181.74 tons per year and will limit source wide PM emissions to less than 249.9 tons per year. VOC, SO2, CO and PM-10 emissions shall be limited to less than 100 ton per year as described under the FESOP section below. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

326 IAC 2-1.1-5 (Nonattainment NSR)

Clark County has been designated as nonattainment for PM 2.5 in 70 FR 943, dated January 5, 2005. According to the April 5, 2005 EPA memo titled “Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas” authored by Steve Page, Director of OAQPS, until EPA promulgates the PM2.5 major NSR regulations, states should assume that a major stationary source’s PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area is a source that emits or has the potential to emit one hundred (100) tons per year of any nonattainment regulated pollutant. Louisville Paving Company Inc./Commercial Pavers has a limited potential to emit of PM10 below one hundred (100) tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-1.1-5 does not apply for PM2.5.

326 IAC 2-3 Emission Offset

Clark County has been designated as nonattainment for the 8-hour ozone standard. This source is not considered a major source because the potential to emit of NOx is less than 100 tons per year and the VOC emissions shall be limited to less than 100 tons per year as described under the FESOP section below. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 2-8 (FESOP)

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

(a) The annual production of hot mix asphalt in the drum dryer/mixer shall be limited to 1,483,387 tons of asphalt mix per twelve (12) consecutive month period, with compliance determined at the end of each month. This limit is required to limit the source’s emissions of PM_{10} and CO to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) are not applicable.

(b) CO emissions from the drum dryer/mixer shall not exceed 0.13 pounds of CO per ton of hot mix asphalt produced. This will limit total source-wide CO emissions to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 and render the requirements of Part 70 (326 IAC 2-7) and PSD (326 IAC 2-2) not applicable.

(c) PM-10 emissions from the aggregate dryer/mixer shall be limited to 0.103 pounds of PM-10 emitted per ton of asphalt produced, based on a maximum throughput of 1,483,387 tons of asphalt mix per year. The source will be able to comply with the PM-10 emission limit by utilizing a baghouse for controlling PM-10 emissions from the aggregate dryer/mixer to less than 0.103 pounds per ton of asphalt produced. Operation of the baghouse is required at all times that the aggregate dryer/mixer is in operation to be able to comply with this limit. Compliance with this limit shall limit the source's potential to emit of PM-10 to less than 99.9 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-7 (Part 70) and 326 IAC 2-2 (PSD) are not applicable.

(d) the sulfur content of the re-refined waste oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1.0 percent by weight.

(e) the chlorine content of the re-refined waste oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 0.065 percent by weight.

(f) the sulfur content of the No. 2 distillate oil used in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 0.5 percent by weight.

(g) The usage of re-refined waste oil and re-refined waste oil equivalents in the 100 MMBtu per hour burner for the aggregate dryer/mixer shall not exceed 1,329,601 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(h) The HCl emissions from the 100 MMBtu per hour burner for the aggregate dryer/mixer shall be limited to less than 4.3 pounds of HCl per 1,000 gallons of re-refined waste oil burned, based on a chlorine content limit of 0.065% by weight.

These limits are required to limit the source-wide SO_2 emissions to less than 100 tons per year and source-wide HCl emissions to less than 10 tons per year. Since HCl is the only single HAP with unrestricted potential emissions of greater than 10 tons per year, this limit will ensure that source-wide single HAP emissions are limited to less than 10 tons per year. Compliance with these limits will also limit source-wide emissions of combined HAP to less than 25 tons per year.

For the purposes of determining compliance, every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 523 gallons of waste oil based on SO_2 emissions, such that the total gallons of waste oil and waste oil equivalent input does not exceed the limit specified.

This limit will render the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-2 (PSD), and 326 IAC 2-4.1 (Major source of Hazardous Air Pollutants) not applicable.

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

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the potential to emit 10 tons per year of a single HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). This source has limited single HAP and combined HAP emissions of less than 10 and 25 tons per year, respectively, therefore, this rule does not apply. HCl emissions shall be limited to less than 10 tons per year as described under the FESOP section above.

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 Emissions Limitations)

This source is subject to 326 IAC 6-5, for fugitive particulate matter emissions. Pursuant to the rule, fugitive particulate matter emissions shall be controlled according to the dust control plan submitted on December 4, 1996. The source shall continue to comply with all the dust abatement measures of the dust control plan which consists of the following:

(a) Fugitive particulate matter emissions from paved roads and parking lots shall be controlled by treating with water as needed.

(b) Fugitive particulate matter emissions from aggregate stockpiles shall be controlled by one or more of the following methods on an as needed basis:
   (1) maintaining minimum size and number of stock piles of aggregate;
   (2) minimizing drop distances; and
   (3) treating stockpiles and/or around the stockpile area with water.

(d) Fugitive particulate matter emissions from the conveying and transfer of aggregates shall be controlled by one of the following methods:
   (1) negative pressure fugitive dust ducts on various parts of the plant connecting to the bag house;
   (2) minimize the vehicular distance between transfer points; and
   (3) apply water on transfer points on an as needed basis.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake or Porter counties, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

(a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

State Rule Applicability Determination - Individual Facilities

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

The aggregate dryer/mixer is not subject to the requirements of 326 IAC 6-3-2. This rule does not apply if the limitation established in the rule is less stringent than applicable limitations in 40 CFR 60.90 (Subpart I - Standards of Performance for Hot Mix Asphalt Facilities) and 326 6.5-1-2. Since the applicable PM limits established by 326 6.5-1-2 and 40 CFR 60, Subpart I, are more stringent than the PM limits that would be established by 326 IAC 6-3-2, the limits pursuant to 326 IAC 6-3-2 do not apply.

326 IAC 6.5-1-2 (Particulate Emissions Limitations)

The requirements of this rule apply to stationary asphalt plants constructed after June 11, 1973 and located in Clark County. Pursuant to 6.5-1-2(a), the particulate matter emissions from the aggregate dryer/mixer is limited to 0.03 gr/dscf. This source is located in Clark County which is one of the specifically listed counties in 326 IAC 6.5-1-1(a). This limitation is more stringent than the additional applicable requirement of 0.04 grains per dry standard cubic foot pursuant to 326 IAC 12 (New Source Performance Standards) and 40 CFR 60.90 (Subpart I - Standards of Performance for Hot Mix Asphalt Facilities). Therefore, compliance with 326 IAC 6.5-1-2(a) will be able to satisfy the grain loading limit of 0.04 gr/dscf pursuant to 326 IAC 12 and 40 CFR 60.90 to 60.93, Subpart I. The source will comply with this rule by using a baghouse to limit particulate matter emissions to less than 0.03 gr/dscf.

326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations)

The drum dryer/mixer burner (ID No. 1) is subject to 326 IAC 7-1.1 because it has potential SO_2 emissions of greater than 25 tons per year (limited potential emissions are 95.12 tons per year). Pursuant to this rule, sulfur dioxide emissions from the dryer/mixer burner shall be limited to 0.5 pounds per MMBtu for distillate oil combustion and 1.6 pounds per MMBtu for re-refined waste oil. This equates to a maximum allowable sulfur content of (0.5% by weight) for No. 2 distillate fuel oil and (1.5% by weight) for re-refined waste oil.

The hot oil heater, identified as emission unit No. 2, is not subject to the requirements of 326 IAC 7-1.1 because it has potential SO_2 emissions of less than 25 tons per year. Therefore, the requirements of this rule are not included in the permit for this facility.

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

Pursuant to this rule, the source shall submit reports of calendar month average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate (pounds SO_2 per MMBtu), to the OAQ upon request.

326 IAC 8-1-6 (BACT)

The drum dryer/mixer has a limited potential to emit of 23.73 tons per year of VOC, based on a limited throughput of 1,483,387 tons per year and a VOC limit of 0.032 pound of VOC per ton of hot mix asphalt produced. Compliance with these limits will render the requirements of 326 IAC 8-1-6 not applicable. Therefore the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 8-5-2 (Asphalt paving rules)

This source does not have the capacity to produce cutback or emulsified asphalt. Therefore, the requirements of 326 IAC 8-5-2 are not included in the permit for this source.

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

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the specified record keeping and reporting requirements. Tanks T-01, T-02, T-03, and T-04 each have maximum capacities less than 39,000 gallons. Therefore, the requirements of this rule are not applicable to these facilities and are not included in this permit.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)

The requirements of this rule apply to stationary sources located in Lake, Porter, Clark and Floyd Counties that emit or have the potential to emit VOCs at levels equal to or greater than 25 tons per year in Lake and Porter Counties; 100 tons per year in Clark and Floyd Counties; and to any coating facility that emits or has the potential to emit 10 tons per year or greater in Lake, Porter, Clark or Floyd County. This source is located in Clark County, does not have any coating facilities, and does not have the potential to emit 100 tons per year of VOCs (the uncontrolled potential to emit of VOCs is 63.22 tons per year). Therefore, this rule is not applicable to this source.

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

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirements of this rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of this rule. The storage tanks (T-01, T-02, T-03, and T-04) are located in Clark County and have a storage capacity less than 39,000 gallons; therefore they are subject to 326 IAC 8-9-6(a) and (b), as follows:

(a) The owner or operator of tanks T-01, T-02, T-03 and T-04 shall maintain the records required by paragraph (b) for the life of the vessel.

(b) The owner or operator of tanks T-01, T-02, T-03 and T-04 shall maintain a record and submit to the department a report containing the following information for each vessel:

(1) The vessel identification number.
(2) The vessel dimensions.
(3) The vessel capacity.
(4) A description of the emission control equipment for each vessel.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

Pursuant to 326 IAC 10-1, sources located in Clark or Floyd counties that exist on or before December 14, 1996 and have potential NOx emissions greater than 100 tons per year, facilities located in Clark or Floyd counties that exist on or before December 14, 1996, and facilities requiring a permit under 326 IAC 2 that are constructed, modified, or reconstructed after December 14, 1996 and to which a new source performance standard (NSPS) does not apply. This source is approved for construction in 2007 and is subject to New Source Performance Standard, 40 CFR 60.90, Subpart I. Therefore, this source is not subject to 326 IAC 10-1 and the requirements of this rule are not included in the permit.

326 IAC 10-3 (Nitrogen Oxide Reduction Program for Specific Source Category)

This source does not operate a Portland cement kiln or a blast furnace gas boiler with a heat input greater than two hundred fifty million (250,000,000) British thermal units per hour. The one 100 million Btu burner is not subject to this rule, therefore the requirements of 326 IAC 10-3 are not applicable.

326 IAC 12-1 (New Source Performance Standards)

The hot mix asphalt plant is required to comply with the requirements of 40 CFR 60.90, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities, as described in the “Federal Rule Applicability” section of this TSD.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

The Compliance Determination Requirements applicable to this modification are as follows:

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

(a) Within sixty (60) days after achieving maximum capacity, but not later than one hundred and eighty (180) days after startup, in order to demonstrate compliance with 326 IAC 2-2, 326 IAC 6.5, and 326 IAC 2-8, the Permittee shall perform PM and PM_{10} testing for the aggregate dryer/mixer utilizing methods as approved by the Commissioner. PM_{10} includes filterable and condensable particulate matter.

(b) Opacity testing utilizing 40 CFR Part 60 Appendix A, Method 9, to demonstrate compliance with the opacity limitation of 40 CFR 60, Subpart I.

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

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

The aggregate dryer/mixer, baghouse stack exhaust, the conveying, screening, and material transfer points have applicable compliance monitoring conditions as specified below:

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

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

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

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

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

(f) The Permittee shall record the pressure drop across the baghouse used in conjunction with the drum dryer/mixer, at least once per day when the drum dryer/mixer is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

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

(h) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. 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).

(i) Bag failure can be indicated by a significant drop in the baghouse 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.

These monitoring conditions are necessary because the baghouse for the aggregate dryer/mixer must operate properly to be able to comply with 40 CFR 60, Subpart I, 326 IAC 6.5, and 326 IAC 2-8-4 (FESOP), and to render the requirements of 326 IAC 2-2 (PSD) not applicable.

Conclusion and Recommendation

The construction of this stationary hot mix asphalt plant shall be subject to the conditions of the attached proposed New Source Construction and FESOP No. 019-24738-00127. The staff recommends to the Commissioner that this New Source Construction and FESOP be approved.

Company Name:	Louisville Paving Company Inc./Commercial Pavers
Plant Location:	220 Willinger Lane, Jeffersonville, IN 47130
County:	Clark
Permit Reviewer:	Julia Handley/EVP

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

The following calculations determine the amount of emissions created by the combustion of # 2 distillate fuel oil
@ 0.5 % sulfur, from the drum-mix aggregate dryer burner, based on 8,760 hours of use and
US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-2, and 1.3-3.

Criteria Pollutant: 100 MMBtu/hr * 8,760 hr/yr * Ef (lb/1,000 gal) = (ton/yr)
139,000 Btu/gal * 2,000 lb/ton

P M:	2.0 lb/1000 gal =	**6.30**	**ton/yr**
P M-10:	3.3 lb/1000 gal =	**10.40**	**ton/yr**
S O 2:	76.8 lb/1000 gal =	**242.13**	**ton/yr**
N O x:	24.0 lb/1000 gal =	**75.63**	**ton/yr**
V O C:	0.20 lb/1000 gal =	**0.63**	**ton/yr**
C O:	5.0 lb/1000 gal =	**15.76**	**ton/yr**

The following calculations determine the amount of emissions created by the combustion of re-refined waste oil
@ 1.00 % sulfur,
@ 1.00 % ash, and
@ 0.065 %Cl, from the drum-mix aggregate dryer burner, based on 8,760 hours of use and
US EPA's AP-42, 5th Edition, Section 1.11 - Waste Oil Combustion, Tables 1.11-1, 1.11-2, , 1.11-3,
and 1.11-4.

Criteria Pollutant: 100 MMBtu/hr * 8,760 hr/yr * Ef (lb/1,000 gal) = (ton/yr)
140,000 Btu/gal * 2,000 lb/ton

P M:	64.0 lb/1000 gal =	**200.23**	**ton/yr**
P M-10:	51.0 lb/1000 gal =	**159.56**	**ton/yr**
S O 2:	147.0 lb/1000 gal =	**459.90**	**ton/yr**
N O x:	19.0 lb/1000 gal =	**59.44**	**ton/yr**
V O C:	1.00 lb/1000 gal =	**3.13**	**ton/yr**
C O:	5.0 lb/1000 gal =	**15.64**	**ton/yr**
HCl:	4.3 lb/1000 gal =	**13.42**	**ton/yr**

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

Criteria Pollutant:			**Worst Case Fuel**
P M:	**200.23**	**ton/yr**	Re-refined Waste Oil
P M-10:	**159.56**	**ton/yr**	Re-refined Waste Oil
S O 2:	**459.90**	**ton/yr**	Re-refined Waste Oil
N O x:	**75.63**	**ton/yr**	No. 2 Distillate Oil
V O C:	**3.13**	ton/yr	Re-refined Waste Oil
C O:	**15.76**	ton/yr	No. 2 Distillate Oil
HCl:	**13.42**	**ton/yr**	Re-refined Waste Oil

****hot oil heater****

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil, from the one 1.0 MMBtu/hr hot oil heater
@ 0.5 % sulfur, from hot oil heater, based on 8760 hours of use and US EPA's AP-42,
5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-1, 1.3-2, and 1.3-3.

Criteria Pollutant: 1 MMBtu/hr * 8,760 hr/yr * Ef (lb/1,000 gal) = (ton/yr)
140,000 Btu/gal * 2,000 lb/ton

P M:	2.0 lb/1000 gal =	**0.06**	**ton/yr**
P M-10:	3.3 lb/1000 gal =	**0.10**	**ton/yr**
S O 2:	69.5 lb/1000 gal =	**2.17**	**ton/yr**
N O x:	20.0 lb/1000 gal =	**0.63**	**ton/yr**
V O C:	0.34 lb/1000 gal =	**0.01**	**ton/yr**
C O:	5.0 lb/1000 gal =	**0.16**	**ton/yr**

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

The following calculations determine the amount of worst case emissions created by aggregate drying and mixing with asphalt binder before controls, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-5 and 11.1-10 for a drum mix dryer which has the capability of combusting natural gas, fuel oil, or re-refined waste oil:

Pollutant: Ef lb/ton x 300 ton/hr x 8,760 hr/yr
2,000 lb/ton

Criteria Pollutant:

P M:	28	lb/ton =	**36,792.00**	**ton/yr**
P M-10:	6.5	lb/ton =	**8,541.00**	**ton/yr**
VOC:	0.032	lb/ton =	**42.05**	**ton/yr**
CO:	0.13	lb/ton =	**170.82**	**ton/yr**
NOx:	0.055	lb/ton =	**72.27**	**ton/yr**
HCl:	0.00021	lb/ton =	0.28	ton/yr

*** * conveying / handling * ***

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM/PM10 emissions is calculated as follows:

E = k*(0.0032)*(((U/5)^1.3)/((M/2)^1.4))
= 5.23E-03 lb PM-10/ton
1.11E-02 lb PM/ton
where k = 0.35 (particle size multiplier for <10um)
0.74 (particle size multiplier for <30um)
U = 12 mph mean wind speed
M = 1.5 material moisture content (%)

300 ton/hr * 8,760 hrs/yr * Ef (lb/ton of material) = (ton/yr)
2,000 lb/ton

Total PM Emissions: 14.53 tons/yr
Total PM 10 Emissions: 6.87 tons/yr

*** * screening * ***

The following calculations determine the amount of emissions created by material screening based on 8,760 hours of use and AP-42, Section 11.19, Table 11.1.2-2.

Pollutant: Ef lb/ton x 300 ton/hr x 8,760 hr/yr
2,000 lb/ton

Criteria Pollutant:

P M:	0.025	lb/ton =	**32.85**	**ton/yr**
P M-10:	0.0087	lb/ton =	**11.43**	**ton/yr**

*** * paved roads * ***

The following calculations determine the amount of emissions created by vehicle traffic on paved roads, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 13.2.1.

3 trip/hr x 0.15 miles/roundtrip x 8,760 hr/yr = 3,942 mile/yr

Ef = [k*(sL/2)^0.65*(W/3)^1.5 - C]*[1-P/(4N)]
= 3.62 lb PM-10/mile
= 18.54 lb PM/mile
where k = 0.016 (particle size multiplier for PM-10) (k=0.082 for PM-30 or TSP)
sL = 120 road surface silt loading (g/m^2)
W = 20.0 tons average weight of all vehicles traveling the road
C = 0.00047 emission factor for 1980's vehicle exhaust, brake wear and tire wear for PM and PM10
P= 120 wet days per year
N= 365 days per year

PM: 18.54 lb/mi x 3,942 mi/yr = **36.55 tons/yr**
2000 lb/ton

PM-10: 3.62 lb/mi x 3,942 mi/yr = **7.13 tons/yr**
2000 lb/ton

Total PM Emissions From Paved Roads = 36.55 tons/yr
Total PM-10 Emissions From Paved Roads = 7.13 tons/yr

*** * storage * ***

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

Material	Silt Content (wt %)	Pile Size (acres)	Storage Capacity (tons)	PM Emissions tons/yr	PM-10 Emissions tons/yr
Sand	1.2	1.5	2,000	0.38	0.13
Stone	1.1	1.5	2,000	0.35	0.12
RAP	0.8	1.5	2,000	0.25	0.09
Total				**0.98**	**0.34**

Sample Calculation:

Emissions (storage) = Ef * (Pile Size in acres) * (365 day/yr) / (2,000 lb/ton)
Ef = 1.7*(s/1.5)*(365-p)/235*(f/15)
= 1.16 lb/acre/day
where s = 1.0 % silt
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph

*** * load-out * ***

The following calculations determine the amount of emissions created by plant load-out, based on 8,760 hours of use and US EPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

PM/PM10 Ef =	0.000181 + 0.00141(-V)e((0.0251)(T+460)-20.43)	
=	5.22E-04	lb PM or PM-10 per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

PM/PM10 =	**0.69 tons/yr**	
Total PAH HAPs =	**0.04 tons/yr**	(5.93% of Organic PM emissions per AP-42)*
Phenol =	**0.01 tons/yr**	(1.18% of Organic PM emissions per AP-42)*

TOC Ef =	0.0172(-V)e((0.0251)(T+460)-20.43)	
=	4.16E-03	lb TOC per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

VOC =	**5.14 tons/yr**	(94% of TOC emissions per AP-42)
Worst Case Single HAP (Xylenes) =	**0.03 tons/yr**	(0.49% of TOC emissions per AP-42)
Total Volatile HAPs =	**0.08 tons/yr**	(1.5% of TOC emissions per AP-42)

CO Ef =	0.00558(-V)e((0.0251)(T+460)-20.43)	
=	1.35E-03	lb CO per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

CO = 1.77 tons/yr

*** * silo filling * ***

The following calculations determine the amount of emissions created by silo filling, based on 8,760 hours of use and US EPA's AP-42, Section 11.1, Tables 11.1-14 through 11.1-16.

PM/PM10 Ef =	0.000332 + 0.00105(-V)e((0.0251)(T+460)-20.43)	
=	5.86E-04	lb PM or PM-10 per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

PM/PM10 =	**0.77 tons/yr**	
Total PAH HAPs =	**0.05 tons/yr**	(11.40% of Organic PM emissions per AP-42)*

TOC Ef =	0.0504(-V)e((0.0251)(T+460)-20.43)	
=	1.22E-02	lb TOC per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

VOC =	**16.01 tons/yr**	(100% of TOC emissions per AP-42)
Worst Case Single HAP (Formaldehyde) =	**0.11 tons/yr**	(0.69% of TOC emissions per AP-42)
Total Volatile HAPs =	**0.21 tons/yr**	(1.3% of TOC emissions per AP-42)

CO Ef =	0.00488(-V)e((0.0251)(T+460)-20.43)	
=	1.18E-03	lb CO per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

CO = 1.55 tons/yr

* Organic PM emissions are calculated using the equation from Table 11.1-14.

Organic PM Ef =	0.00141(-V)e((0.0251)(T+460)-20.43)	
=	3.41E-04	lb PM or PM-10 per ton of asphalt mix produced
where V =	-0.5	asphalt volatility (default value of -0.5 used per AP-42)
T=	325	hot mix asphalt (HMA) mix temperature in degrees F (default value of 325 used per AP-42)

*** * summary of source emissions before controls * ***

Criteria Pollutants:

P M:	**37,078.66**	**ton/yr**
P M-10:	**8,727.89**	**ton/yr**
S O 2:	**462.07**	**ton/yr**
N O x:	**76.25**	**ton/yr**
V O C:	**63.21**	**ton/yr**
C O:	**174.30**	**ton/yr**
HCl:	**13.42**	**ton/yr**

*** * source emissions after controls * ***

In order to qualify for the FESOP program, this source must limit SO2 emissions to 99.9 tons per year and single HAP emissions to 9.9 tons per year.
Therefore the following limits apply:

SO2 limited emissions= 99.90 tons per year - 2.17 tpy from the hot oil heater = 97.73 tons per year
HCL limited emissions= 9.90 tons per year

* Emissions of PM and PM-10 from aggregate drying operations are controlled with a 99.900 % control efficiency.

The following calculations determine the amount of emissions created by the combustion of No. 2 distillate fuel oil in the drum-mix and batch mix aggregate dryers @ 0.5 % sulfur, from the aggregate dryer burner,
based on a fuel usage limitation of 2,543,563 gal/yr:

Criteria Pollutant: 2,544 Kgal/yr: / 2,000 lb/ton * Ef (lb/1,000 gal) = (ton/yr)

P M:	2.0 lb/1000 gal =	**0.00**	**ton/yr**
P M-10:	3.3 lb/1000 gal =	**0.00**	**ton/yr**
S O 2:	76.8 lb/1000 gal =	**97.73**	**ton/yr**
N O x:	24.0 lb/1000 gal =	**30.52**	**ton/yr**
V O C:	0.20 lb/1000 gal =	**0.25**	**ton/yr**
C O:	5.0 lb/1000 gal =	**6.36**	**ton/yr**

The following calculations determine the amount of emissions created by the combustion of re-refined waste oil in the drum mix aggregated dryer
@ 1.00 % sulfur,
@ 1.00 % ash, and
@ 0.065 %Cl, from the aggregate dryer burner, based on 8,760 hours of use and
based on a fuel usage limitation of 1,329,601 gal/yr:

Criteria Pollutant: 1,329.601 Kgal/yr: / 2,000 lb/ton * Ef (lb/1,000 gal) = (ton/yr)

P M:	64.0 lb/1000 gal =	**0.04**	**ton/yr**
P M-10:	51.0 lb/1000 gal =	**0.03**	**ton/yr**
S O 2:	147.0 lb/1000 gal =	**97.73**	**ton/yr**
N O x:	19.0 lb/1000 gal =	**12.63**	**ton/yr**
V O C:	1.00 lb/1000 gal =	**0.66**	**ton/yr**
C O:	5.0 lb/1000 gal =	**3.32**	**ton/yr**
HCl:	4.3 lb/1000 gal =	**2.85**	**ton/yr**

Criteria Pollutant:			**Worst Case Fuel**
P M:	**0.04**	**ton/yr**	Re-refined Waste Oil
P M-10:	**0.03**	**ton/yr**	Re-refined Waste Oil
S O 2:	**97.73**	**ton/yr**	Re-refined Waste Oil & No 2 Distillate Oil
N O x:	**30.52**	**ton/yr**	No. 2 Distillate Oil
V O C:	**0.66**	**ton/yr**	Re-refined Waste Oil
C O:	**6.36**	**ton/yr**	No. 2 Distillate Oil
HCl:	**2.85**	**ton/yr**	Re-refined Waste Oil

*** * Aggregate Burner Fuel Usage Limitations * ***

The potential to emit of NOx from No. 2 or wast oil fuel combustion is less than 100 tons per year. Therefore, no fuel usage limit based on NOx is required to limit source wide NOx emissions to less than 100 tons.

Fuel: #2 distillate oil

97.73 tons SO2/year limited / 242.13 tons SO2/year potential x 6,302.16 Kgals / year potential

= 2,543.563 Kgals / year limited

Fuel: Re-refined waste oil

97.73 tons SO2/year limited / 459.90 tons SO2/year potential x 6,257.14 Kgals / year potential

= 1,329.601 Kgals / year limited

9.90 tons HCl/year limited / 13.42 tons HCl/year potential x 6,257.14 Kgals / year potential

= 4,615.385 Kgals / year limited

Since the allowable fuel usage based upon SO2 emissions is less than the allowable fuel usage based upon HCl emissions, limiting SO2 emissions to less than 100 tons per yearwill also limit the potential to emit of HCl from waste oil combustion to less than 10 tons per year. Therefore, the fuel usage limit based on SO2 will be included in the permit for waste oil.

*** * Fuel Equivalence Limitations * ***

Fuel equivalence limit for #2 fuel oil based on emissions from waste oil:

459.90 W.O. potential emissions (ton/yr) / 6257.14 W.O. potential usage (kgal/yr) / 242.13 #2 F.O. potential emissions. (ton/yr) / 6302.16 #2 F.O. potential usage (Kgal/yr)

= 1.9130 Kgal #2 F.O. burned / Kgal W.O. burned = 0.523 Kgal W.O. burned / Kgal #2 F.O. burned

In order to qualify for a FESOP permit the source must limit CO and PM-10 emissions to less than 100 tons per year.
PM-10 emissions will be limited by baghouse control. CO emissions shall be limited by limiting the production of HMA from the aggregate mixer.
Consequently, the annual throughput shall be limited as follows:

Annual throughput limit = 1,483,387 tons asphalt/year

This will limit VOC emissions from the drum mixer/aggregate burner to less than 24.9 tons per year, making the requirement of 326 IAC 8-1-6 not applicable.

* Emissions of PM and PM-10 from drying operations are controlled with a 99.900 % control efficiency.

*** * aggregate drying: drum-mix plant - Limited Throughput* ***

The following calculations determine the amount of worst case emissions created by aggregate drying after controls, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-5 and 11.1-10 for a drum mix dryer which has the capability of combusting either fuel oil, natural gas, or re-refined waste oil:

Pollutant:	Ef	lb/ton x	1,483,387.31	ton/yr
			2,000	lb/ton

Criteria Pollutant:

P M:	28	lb/ton =	**20.77**	**ton/yr**
P M-10:	6.5	lb/ton =	**4.82**	**ton/yr**
VOC:	0.032	lb/ton =	**23.73**	**ton/yr**
Pb:	0.0000033	lb/ton =	**0.00**	**ton/yr**
HCl:	0.00021	lb/ton =	**0.16**	**ton/yr**
CO:	0.13	lb/ton =	**96.42**	**ton/yr**
NOx:	0.055	lb/ton =	**40.79**	**ton/yr**

*** * source emissions after controls * ***

drum mixer/dryer:			nonfugitive		
P M:	20.81	ton/yr x			**20.81 ton/yr**
P M-10:	4.85	ton/yr x			**4.85 ton/yr**
S O 2:	97.73	ton/yr x			**97.73 ton/yr**
NOx:	30.52	ton/yr x			**30.52 ton/yr**
VOC:	23.73	ton/yr x			**23.73 ton/yr**
C O:	96.42	ton/yr x			**96.42 ton/yr**
HCl:	2.85	ton/yr x			**2.85 ton/yr**

hot oil heater:			nonfugitive		
P M:	0.06	ton/yr x	100.00%	emitted after controls =	**0.06 ton/yr**
P M-10:	0.10	ton/yr x	100.00%	emitted after controls =	**0.10 ton/yr**
S O 2:	2.17	ton/yr x	100.00%	emitted after controls =	**2.17 ton/yr**
N O x:	0.63	ton/yr x	100.00%	emitted after controls =	**0.63 ton/yr**
VOC:	0.01	ton/yr x	100.00%	emitted after controls =	**0.01 ton/yr**
C O:	0.16	ton/yr x	100.00%	emitted after controls =	**0.16 ton/yr**
conveying/handling:			fugitive		
P M:	14.53	ton/yr x	50%	emitted after controls =	**7.26 ton/yr**
P M-10:	6.87	ton/yr x	50%	emitted after controls =	**3.44 ton/yr**
screening:			fugitive		
P M:	32.85	ton/yr x	100%	emitted after controls =	**32.85 ton/yr**
P M-10:	11.43	ton/yr x	100%	emitted after controls =	**11.43 ton/yr**
paved roads:			fugitive		
P M:	36.55	ton/yr x	50%	emitted after controls =	**18.28 ton/yr**
P M-10:	7.13	ton/yr x	50%	emitted after controls =	**3.57 ton/yr**
storage piles:			fugitive		
P M:	0.98	ton/yr x	50%	emitted after controls =	**0.49 ton/yr**
P M-10:	0.34	ton/yr x	50%	emitted after controls =	**0.17 ton/yr**
load-out & silo filling:			fugitive		
P M:	1.46	ton/yr x	100%	emitted after limited throughput =	**1.46 ton/yr**
P M-10:	1.46	ton/yr x	100%	emitted after limited throughput =	**1.46 ton/yr**
VOC:	21.15	ton/yr x	100%	emitted after limited throughput =	**21.15 ton/yr**
CO:	3.32	ton/yr x	100%	emitted after limited throughput =	**3.32 ton/yr**

*** * summary of source emissions after limitation and controls * ***

Criteria Pollutant:

	Non-Fugitive	**Fugitive**	**Total**
PM:	**20.87 ton/yr**	**60.34 ton/yr**	**81.21 ton/yr**
PM-10:	**4.96 ton/yr**	**20.06 ton/yr**	**25.02 ton/yr**
S O 2:	**99.90 ton/yr**	**0.00 ton/yr**	**99.90 ton/yr**
N O x:	**31.15 ton/yr**	**0.00 ton/yr**	**31.15 ton/yr**
V O C:	**23.74 ton/yr**	**21.15 ton/yr**	**44.90 ton/yr**
C O:	**96.58 ton/yr**	**3.32 ton/yr**	**99.90 ton/yr**
HCl:	**2.85 ton/yr**	**0.00 ton/yr**	**2.85 ton/yr**

Hazardous Air Pollutants (HAPs)

**** aggregate dryer burner****

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.5 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-10.

Hazardous Air Pollutants (HAPs):

100 MMBtu/hr * 8760 hr/yr
2,000 lb/ton

* Ef (lb/10^12 Btu) = (ton/yr)

			Potential To Emit	Limited Emissions
Arsenic:	4	lb/10^12 Btu =	1.75E-03 ton/yr	1.75E-06 ton/yr
Beryllium:	3	lb/10^12 Btu =	1.31E-03 ton/yr	1.31E-06 ton/yr
Cadmium:	3	lb/10^12 Btu =	1.31E-03 ton/yr	1.31E-06 ton/yr
Chromium:	3	lb/10^12 Btu =	1.31E-03 ton/yr	1.31E-06 ton/yr
Lead:	9	lb/10^12 Btu =	3.94E-03 ton/yr	3.94E-06 ton/yr
Manganese:	6	lb/10^12 Btu =	2.63E-03 ton/yr	2.63E-06 ton/yr
Mercury:	3	lb/10^12 Btu =	1.31E-03 ton/yr	1.31E-06 ton/yr
Nickel:	3	lb/10^12 Btu =	1.31E-03 ton/yr	1.31E-06 ton/yr
Selenium:	15	lb/10^12 Btu =	6.57E-03 ton/yr	6.57E-06 ton/yr
		Total HAPs =	**2.15E-02 ton/yr**	**2.15E-05 ton/yr**

The following calculations determine the amount of HAP emissions created by the combustion of waste oil before & after controls @ 1.0 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.11-1, 1.11-4.

Hazardous Air Pollutants (HAPs):

100 MMBtu/hr * 8,760 hr/yr
140,000 Btu/gal * 2,000 lb/ton

* Ef (lb/1,000 gal) = (ton/yr)

			Potential To Emit	Limited Emissions
Arsenic:	1.10E-01	lb/1000 gal =	0.34 ton/yr	1.75E-06 ton/yr
Cadmium:	9.30E-03	lb/1000 gal =	2.91E-02 ton/yr	1.31E-06 ton/yr
Chromium:	2.00E-02	lb/1000 gal =	6.26E-02 ton/yr	1.31E-06 ton/yr
Cobalt:	2.10E-04	lb/1000 gal =	6.57E-04 ton/yr	1.31E-06 ton/yr
Lead:	1.87E-01	lb/1000 gal =	0.59 ton/yr	3.94E-06 ton/yr
Manganese:	6.80E-02	lb/1000 gal =	0.21 ton/yr	2.63E-06 ton/yr
Nickel:	1.10E-02	lb/1000 gal =	3.44E-02 ton/yr	1.31E-06 ton/yr
		Total HAPs =	**1.27 ton/yr**	**1.36E-05 ton/yr**

*** * aggregate drying: drum-mixer * ***

The following calculations determine the amount of HAP emissions created by aggregate drying and mixing with asphalt binder before & after controls, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-10 for a drum mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (fuel oil combustion).

Uncontrolled:

Ef	lb/ton x	300	ton/hr x	8760 hr/yr
		2000	lb/ton	

Controlled:

Ef	lb/ton x	1,483,387	ton/yr
		2000	lb/ton

Hazardous Air Pollutants (HAPs):

			Potential To Emit	Limited Emissions
Acetaldehyde	3.20E-04	lb/ton =	0.42 ton/yr	0.24 ton/yr
Acrolein	2.60E-05	lb/ton =	0.03 ton/yr	0.02 ton/yr
Benzene:	3.90E-04	lb/ton =	0.51 ton/yr	0.29 ton/yr
Ethyl benzene:	2.40E-04	lb/ton =	0.32 ton/yr	0.18 ton/yr
Formaldehyde:	3.10E-03	lb/ton =	4.07 ton/yr	2.30 ton/yr
Hexane:	9.20E-04	lb/ton =	1.21 ton/yr	0.68 ton/yr
2,2,4 Trimethylpentane:	4.00E-05	lb/ton =	0.05 ton/yr	0.03 ton/yr
Methyl chloroform:	4.8E-05	lb/ton =	0.06 ton/yr	0.04 ton/yr
Propionaldehyde	1.30E-04	lb/ton =	0.17 ton/yr	0.10 ton/yr
Quinone	1.60E-04	lb/ton =	0.21 ton/yr	0.12 ton/yr
PAH (total) HAPs:	8.8E-04	lb/ton =	1.16 ton/yr	0.65 ton/yr
Toluene:	2.9E-03	lb/ton =	3.81 ton/yr	2.15 ton/yr
Xylene:	2.00E-04	lb/ton =	0.26 ton/yr	0.15 ton/yr
		Total HAPs =	12.29 ton/yr	6.94 ton/yr

*** * summary of source HAP emissions * ***

potential to emit Hazardous Air Pollutants (HAPs):			limited emissions Hazardous Air Pollutants (HAPs):		
Acetaldehyde	**0.512**	ton/yr	Acetaldehyde	**0.29**	ton/yr
Acrolein	**0.315**	ton/yr	Acrolein	**0.18**	ton/yr
Arsenic:	**0.063**	ton/yr	Arsenic:	**0.00**	ton/yr
Benzene:	**4.073**	ton/yr	Benzene:	**2.30**	ton/yr
Beryllium:	**0.001**	ton/yr	Beryllium:	**0.00**	ton/yr
Cadmium:	**0.001**	ton/yr	Cadmium:	**0.00**	ton/yr
Chromium:	**0.585**	ton/yr	Chromium:	**0.00**	ton/yr
Cobalt:	**0.213**	ton/yr	Cobalt:	**0.00**	ton/yr
Ethyl benzene:	**1.209**	ton/yr	Ethyl benzene:	**0.68**	ton/yr
Formaldehyde:	**0.163**	ton/yr	Formaldehyde:	**0.14**	ton/yr
HCl	**13.422**	ton/yr	HCl	**2.85**	ton/yr
Hexane	**0.063**	ton/yr	Hexane	**0.04**	ton/yr
Lead:	**0.034**	ton/yr	Lead:	**0.00**	ton/yr
Manganese:	**1.269**	ton/yr	Manganese:	**0.00**	ton/yr
Methyl chloroform:	**0.210**	ton/yr	Methyl chloroform:	**0.12**	ton/yr
Mercury:	**0.001**	ton/yr	Mercury:	**0.00**	ton/yr
Nickel:	**0.000**	ton/yr	Nickel:	**0.00**	ton/yr
Propionaldehyde	**1.156**	ton/yr	Propionaldehyde	**0.65**	ton/yr
Phenol	**0.008**	ton/yr	Phenol	**0.01**	ton/yr
Selenium:	**0.021**	ton/yr	Selenium:	**0.00**	ton/yr
2,2,4 Trimethylpentane:	**0.171**	ton/yr	2,2,4 Trimethylpentane:	**0.10**	ton/yr
Toluene:	**3.811**	ton/yr	Toluene:	**2.15**	ton/yr
Total PAH HAPs:	**0.092**	ton/yr	Total PAH HAPs:	**0.09**	ton/yr
Xylene:	**0.290**	ton/yr	Xylene:	**0.18**	ton/yr
Total:	**27.68**	**ton/yr**	**Total:**	**9.77**	**ton/yr**

*** * miscellaneous * ***

326 IAC 7 Compliance Calculations:

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

0.5 lb/MMBtu x 139,000 Btu/gal= 69.5 lb/1000gal

69.5 lb/1000gal / 142 lb/1000 gal = 0.5 %

Sulfur content must be less than or equal to 0.5% to comply with 326 IAC 7.

The following calculations determine the maximum sulfur content of re-refined waste oil allowable by 326 IAC 7:

1.6 lb/MMBtu x 140,000 Btu/gal= 224 lb/1000gal

224 lb/1000gal / 150 lb/1000 gal = 1.5 %

Sulfur content must be less than or equal to 1.5% to comply with 326 IAC 7.

326 IAC 6-3-2 Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-3-2 for the aggregate drying process with a process weight rates in excess of 30 tons per hour:

400 Tons per Hour Drum-Mix Plant:

limit = 55 * (300 ^ 0.11) - 40 = 63.00 lb/hr or

Since the emission limits pursuant to 326 6.5 and Subpart I of 40 CFR 60 is more stringent than this limit, the limit pursuant to 326 IAC 6-3-2 does not apply.

PM-10 Emission Limit for Aggregate mixer & Dryer:

(99.90 tons PM-10/yr - 23.77 tons PM-10/yr from other sources)
=
76.12 tons PM-10/yr = 17.38 lbs/hr (Will be able to comply)

Controlled PM-10 emissions from the aggregate dryer are 1.11 lbs/hr < 17.38 lbs/hr
Based on a maximum HMA production of 1,480,499 tons/year, this emission limit is equivalent to 0.103 lb PM-10 per ton

PM Emission Limit for Aggregate Mixer and Dryer:
Source-wide emissions of PM must be less than 250 tons per year such that the requirements of 326 IAC 2-2 (PSD) are not applicable. Therefore, PM from the aggregate dryer/mixer shall be limited as follows:

(249.90 tons PM/yr - 68.15 tons PM/yr from other sources)
=
181.74 tons PM/yr = 41.49 lbs/hr (Will be able to comply)

Controlled PM emissions from the aggregate dryer are 4.75 lbs/hr < 41.49 lbs/hr
Based on a maximum HMA production of 1,480,499 tons/year, this emission limit is equivalent to 0.245 lb PM per ton

40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) and 326 IAC 6.5 Compliance Calculations:

The following calculations determine compliance with NSPS 40 CFR Part 60.90, Subpart I, which limits stack emissions from asphalt plants to 0.04 gr/dscf: (Will be able to comply)

Aggregate Dryer and Mixer Baghouse:

20.81 ton/yr * 2000 lb/ton * 7000 gr/lb = 0.010 gr/dscf
525,600 min/yr * 52,800 dscf/min

Allowable particulate emissions under NSPS equate to 79.29 tons per year. 18.10 lbs/hr
Allowable particulate emissions under 326 IAC 6.5 equate to 59.47 tons per year. 13.58 lbs/hr

Note:
SCFM = 60,000 acfm * (460 + 68) / (460 + 270
= 52,800 scfm

Assumes exhaust gas temperature of 140F, and exhaust gas flow of 53,590 acfm.