INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant

DATE: January 16, 2008

RE: Central Paving, Inc./ 017-25235-03118

FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval – Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, 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 4-21.5-3-7 and IC 13-15-7-3 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 Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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.

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Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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
FNTV-PMOD.doc 1/2/08

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Indianapolis, Indiana 46204-2251
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Mr. Kurt S. Brandstatter
Vice President
Central Paving, Inc.
P.O. Box 357
Logansport, Indiana 46947

January 16, 2008

Re: 017-25235-03118
Significant Permit Modification to
Part 70 Permit No.: T 017-15214-03118

Dear Mr. Brandstatter:

Central Paving, Inc. was issued a Part 70 Operating Permit on May 29, 2003 for the operation of a stationary batch-mix hot asphalt plant. A letter requesting changes to this permit was received on August 28, 2007. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of replacing one (1) natural gas or waste oil fired 42.27 MMBtu/hr burner for the asphalt dryer, identified as AD-01. In addition, one (1) natural gas fired 0.3 MMBtu/hr pre-heater, identified as PH-01, for the asphalt dryer, and one (1) 14,000 gallon waste oil storage tank, identified as AST-WO, both defined as insignificant activities, are also to be constructed.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Joe Sachse, OAQ, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Joe Sachse or extension (4-3350), or dial (317) 234-3350.

Sincerely/Original Signed By:

Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
Technical Support Document
PTE Calculations

ajs

cc: File – Cass County
Cass County Health Department
U.S. EPA, Region V
Air Compliance Inspector – Lisa Hayhurst

Compliance Data Section
Permit Reviewer – Joe Sachse
Permits Administration and Development

Mr. Mack Overton
Environmental Consultant
Astbury Environmental Engineering, Inc.
5645 West 79th Street
Indianapolis, Indiana 46278-1711

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Part 70 OPERATING PERMIT
OFFICE OF AIR QUALITY

Central Paving, Inc.
2403 South County Road 150 East
Logansport, Indiana 46947

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. 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 approval 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 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T017-15214-03118	
Issued by: Original Signed By Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: May 29, 2003 Expiration Date: May 29, 2008
First Administrative Amendment No.: 017-17853-03118 Second Administrative Amendment No.: 017-20816-03118 First Significant Permit Modification No.: 017-22251-03118	Issuance Date: July 11, 2003 Issuance Date: August 10, 2005 Issuance Date: February 1, 2006
Second Significant Permit Modification No.: 017-25235-03118	Pages Affected: Entire Permit
Issued by/Original Signed By: Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: January 16, 2008 Expiration Date: May 29, 2008

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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 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

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

Source Address:	2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address:	P.O. Box 357, Logansport, Indiana 46947
General Source Phone Number:	574-722-4727
SIC Code:	2951
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 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 2-7-4(c)(3)][326 IAC 2-7-5(15)]

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

(a) one (1) asphalt dryer, identified as AD-01, capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas or waste oil fired 42.27 million British thermal units (MMBtu) per hour burner;
(b) one (1) set of three (3) vibrating screens for classifying dried aggregate;
(c) one (1) mixer for mixing classified aggregate and liquid asphalt;
(d) one (1) baghouse for controlling particulate matter (PM and PM-10) emissions from the dryer and mixer, exhausting at one (1) stack (ID No. SV1);
(e) one (1) aggregate conveyor with a maximum capacity of 150 tons per hour;
(f) one (1) 20,000 gallon liquid asphalt storage tank; and
(g) production of stockpile mix (cold mix) asphalt;

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

(a) one (1) natural gas fired hot oil heater, with a maximum rated capacity of 2.115 million British thermal units per hour;
(b) five (5) hopper bottom aggregate storage bins, each with a capacity of 20 tons;
(c) two (2) 10,000 gallon liquid asphalt storage tanks;
(d) 20% unpaved roads with public access and 80% paved roads;
(e) multiple aggregate storage piles with a total maximum storage capacity of 20,000 tons;
(f) one (1) natural gas fired pre-heater for the asphalt dryer, with a maximum rated capacity of 0.3 million British thermal units per hour; and
(g) one (1) 14,000 gallon waste oil storage tank, identified as AST-WO.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

(a) This permit, T017-15214-03118, 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.4 Enforceability [326 IAC 2-7-7]

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

B.5 Severability [326 IAC 2-7-5(5)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.

(b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

(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 the "responsible official" 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) A "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

(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 July 1 of each year to:

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

and

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

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

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

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

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within thirty (30) 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 thirty (30) 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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.11 Emergency Provisions [326 IAC 2-7-16]

(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.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 2-7-4(c)(9) 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 2-7 and any other applicable rules.

(g) 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.

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

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T017-25206-03118 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 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 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 2-7-9(a)(3)]

(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 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(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 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

(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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) 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 preconstruction approval required by 326 IAC 2-7-10.5 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 2-7-20(b),(c), or (e). 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 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(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 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(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 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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 Part 70 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 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 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 substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][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) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][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 2-7-5(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 Opacity [326 IAC 5-1]

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

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

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

C.3 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.4 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.5 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.6 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.7 Performance Testing [326 IAC 3-6]

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

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

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

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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.8 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 2-7-5(1)][326 IAC 2-7-6(1)]

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within thirty (30) 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 thirty (30) days, the Permittee may extend the compliance schedule related to the equipment for an additional thirty (30) 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 thirty (30) days 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.10 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.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(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 2-7-5][326 IAC 2-7-6]

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

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

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

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

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

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

The ERP does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(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.13 Risk Management Plan [326 IAC 2-7-5(12)] [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.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(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.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The emission statement 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.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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

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

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) one (1) asphalt dryer, identified as AD-01, capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas or waste oil fired 42.27 million British thermal units (MMBtu) per hour burner;
(b) one (1) set of three (3) vibrating screens for classifying dried aggregate;
(c) one (1) mixer for mixing classified aggregate and liquid asphalt;
(d) one (1) baghouse for controlling particulate matter (PM and PM_{10}) emissions from the dryer and mixer, exhausting at one (1) stack (ID No. SV1);
(e) one (1) aggregate conveyor with a maximum capacity of 150 tons per hour;
(f) one (1) 20,000 gallon liquid asphalt storage tank; and
(g) production of stockpile mix (cold mix) asphalt.
(h) 20% unpaved roads with public access and 80% paved roads.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the cutback asphalt or asphalt emulsion produced shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except as used for the following purposes:

(1) penetrating prime coating

(2) stockpile storage

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

Pursuant to 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels," the vapor pressure of the VOC in the one (1) 20,000 gallon asphalt storage tank shall be less than 15.0 kPa.

D.1.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

D.1.4 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.90, Subpart I]

Pursuant to 326 IAC 12, 40 CFR Part 60.90, Subpart I, “Standards of Performance for Hot Mix Asphalt Facilities,” the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf).

D.1.5 PSD Minor Limit [326 IAC 2-2]

(a) The particulate emissions from the aggregate dryer and mixer shall not exceed 8.23 pounds per hour;

(b) The PM emissions from the unpaved roads shall not exceed 28.33 pounds per hour;

(c) The PM_{10} emissions from the aggregate dryer and mixer shall not exceed 50.65 pounds per hour;

(d) The PM_{10} emissions from the unpaved roads shall not exceed 6.03 pounds per hour;

(e) The CO emissions from the aggregate dryer shall not exceed 56.44 pounds per hour; and

(f) The cutback asphalt medium cure liquid binder usage shall be less than 346.07 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. In addition, the cut back asphalt medium cure shall contain a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.

Compliance with these limits combined with the PM, PM_{10}, CO and VOC emission limits from the other emission units, shall limit source-wide PM, PM_{10}, CO and VOC emissions to less than 250 tons per year for each of these pollutants, and render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the source.

D.1.6 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]

Pursuant to 326 IAC 12, 40 CFR Part 60.92, Subpart I, “Standards of Performance for Hot Mix Asphalt Facilities,” the mixing and drying operations shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater.

D.1.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Before January 2008, in order to demonstrate compliance with Conditions D.1.4, D.1.5 and D.1.6, the Permittee shall perform PM and PM_{10} testing for the mixing and drying operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensable PM_{10}. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.9 Particulate Control

In order to comply with conditions D.1.4 and D.1.5, the baghouse for particulate control shall be in operation and control emissions from the mixing and drying operation at all times when mixing and drying are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.10 Visible Emissions Notations

(a) Visible emission notations of the aggregate dryer and mixer baghouse stack exhaust and the conveying, material transfer points, and screening 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 steps in accordance with Section C – Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedences shall be considered a violation of this permit.

D.1.11 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the mixing and drying operation, at least once per day when the mixing and drying process is in operation. When for any one reading the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedences. 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 Exceedences, shall be considered a violation of 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.1.12 Broken or Failed Bag Detection

In the event that bag failure has been observed:

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

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

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

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain permanent records at the source in accordance with (1) through (3) below:

(1) the dimension of the storage vessel;

(2) an analysis showing the capacity of the storage vessel; and

(3) the true vapor pressure of the VOC stored in the one (1) 20,000 gallon asphalt storage tank.

(b) To document compliance with Condition D.1.5(f), the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.1.5(f). Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

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

(2) Cutback asphalt medium cure liquid binder usage per month since the last compliance determination period;

(3) VOC solvent content by weight of the cutback asphalt medium cure liquid binder used each month; and

(4) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.

(c) To document compliance with Condition D.1.10, the Permittee shall maintain a daily record of visible emission notations of the aggregate dryer and mixer baghouse stack exhaust and the conveying, material transfer points, and screening once per day. 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).

(d) To document compliance with Condition D.1.11, the Permittee shall maintain once per day records of the pressure drop of the aggregate dryer and mixer baghouse during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, (e.g. the process did not operate that day).

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

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.5(f) 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 the “responsible official” as defined by 326 IAC 2-7-1(34).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Central Paving, Inc.
Source Address: 2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address: P.O. Box 357, Logansport, Indiana 46947
Part 70 Permit No.: T017-15214-03118

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:
Phone:
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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Central Paving, Inc.
Source Address: 2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address: P.O. Box 357, Logansport, Indiana 46947
Part 70 Permit No.: T017-15214-03118

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
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

Part 70 Quarterly Report

Source Name: Central Paving, Inc.
Source Address: 2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address: P.O. Box 357, Logansport, Indiana 46947
Part 70 Permit No.: T017-15214-03118
Facility: Production of stockpile mix (cold mix) asphalt
Parameter: VOC
Limit: Cutback asphalt medium cure liquid binder usage shall be less than 346.07 tons of VOC solvent per twelve (12) consecutive month period.

QUARTER: YEAR:

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

☐ No deviation occurred in this quarter.

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

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

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Central Paving, Inc.
Source Address: 2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address: P.O. Box 357, Logansport, Indiana 46947
Part 70 Permit No.: T017-15214-03118

Months: _____ to _____ Year: _____

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

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

Form Completed by:_____

Title / Position: _____

Date:_____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD)
for a Part 70 Significant Source Modification
and Significant Permit Modification

Source Description and Location

Source Name:	Central Paving, Inc.
Source Location:	2403 South County Road 150 East Logansport, Indiana 46947
County:	Cass
SIC Code:	2951
Operation Permit No.:	T 017-15214-03118
Operation Permit Issuance Date:	May 29, 2003
Significant Source Modification (SSM) No.:	T017-25206-03118
Significant Permit Modification (SPM) No.:	T017-25235-03118
Permit Reviewer:	Joe Sachse

Existing Approvals

The source was issued Part 70 Operating Permit No. T017-15214-03118 on May 29, 2003. The source has since received the following approvals:

(a) First Administrative Amendment No. 017-17853-03118, issued on July 11, 2003;

(b) Second Administrative Amendment No. 017-20816-03118, issued on August 10, 2005; and

(c) First Significant Permit Modification No. 017-22251-03118, issued on February 1, 2006.

County Attainment Status

The source is located in Cass County.

Table 1: County Attainment Status

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

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

(b) Cass County has been classified as attainment for $PM_{2.5}$. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for $PM_{2.5}$ emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for $PM_{2.5}$ emissions, it has directed states to regulate PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions.

(c) Cass County has been classified as attainment or unclassifiable for PM_{10}, SO_2, NO_2, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) 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 (40 CFR 60, Subpart I) that was in effect on August 7, 1980 for this source category. Therefore, the fugitive emissions, except those from unpaved roads, are counted toward the determination of PSD and Emission Offset applicability.

Pursuant to 40 CFR 60.90(a), an affected facility to which the provisions of Subpart I apply is each hot mix asphalt facility. For the purpose of Subpart I, 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." Since unpaved roads are not an affected facility of the applicable NSPS, fugitive particulate emissions resulting from unpaved roads are not counted toward determination of PSD applicability.

Source Status

The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Table 2: Source Status PTE

Pollutant	Emissions (TPY)
PM	161.61
PM_{10}	249.00
SO_2	0.19
VOC	249.00
CO	26.53
NO_X	31.59

(a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) These emissions are based upon Part 70 Operation Permit No. 017-15214-03118.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

Table 3: Source Status HAP PTE	
HAPs	Potential To Emit (TPY)
Acetaldehyde	0.21
Benzene	0.18
Ethylbenzene	1.45
Formaldehyde	0.49
Quinone	0.18
Toluene	0.66
Total Polycyclic Organic Matter (POM)	0.07
Xylene	1.77
Total	5.01

This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because HAPs emissions are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Table 4: Actual Emissions	
Pollutant	Actual Emissions (TPY)
PM	7.66
PM_{10}	1.51
SO_2	0.11
VOC	82.39
CO	1.90
NO_x	0.63
Acetaldehyde	0.01
Benzene	0.01
Ethylbenzene	0.10
Formaldehyde	0.03
Quinone	0.01
Toluene	0.05
Xylene	0.12
Total HAPs	0.33

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Central Paving, Inc. on August 28, 2007, relating to the modification of a stationary batch-mix hot asphalt plant. As described in OP No. T017-15214-03118 issued May 29, 2003, the source operates the asphalt dryer with natural gas as primary fuel. The source plans to modify the asphalt dryer to use both natural gas and waste oil as primary fuel, and replace the 70 million British thermal units (MMBtu) per hour burner with a 42.27 MMBtu per hour burner. In addition, a 0.3 MMBtu per hour natural gas fired pre-heater for the asphalt dryer and a 14,000 gallon waste oil storage tank, each considered an insignificant activity as defined in 326 IAC 2-7-1(21), are to be installed. The following is a list of the modified/new emission units:

(a) one (1) asphalt dryer, approved for modification in 2007, identified as AD-01, capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas or waste oil fired 42.27 million British thermal units (MMBtu) per hour burner, with emissions controlled by a baghouse, exhausting to stack SV1;

(b) one (1) natural gas fired pre-heater for the asphalt dryer, approved for construction in 2007, identified as PH-01, with a maximum heat input capacity of 0.3 million British thermal units (MMBtu) per hour, with emissions controlled by a baghouse, exhausting to stack SV1; and

(c) one (1) waste oil storage tank, approved for construction in 2007, identified as AST-WO, with a maximum capacity of 14,000 gallons, with emissions uncontrolled.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

Pursuant to 326 IAC 2-1.1-1(16), 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."

Table 5 below is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Note: Modification being replacement of existing 70 MMBtu/hr burner with a 42.27 MMBtu/hr burner, and using natural gas and waste oil instead of only natural gas as fuel for the dryer.

Table 5: PTE Change of the Modified Process

Pollutant	PTE Before Modification [a] (TPY)	PTE After Modification [b] (TPY)	Net Difference (TPY)
PM	0.58	82.38	+81.80
PM_{10}	2.33	71.15	+68.82
SO_2	0.19	25.31	+25.13
VOC	1.69	1.31	-0.38

[a] Emissions created by natural gas combustion from the aggregate dryer burner based on 8,760 hours of operation and AP-42 emission factors.
[b] Emissions created by waste oil combustion from the aggregate dryer burner based on 8,760 hours of operation and AP-42 emission factors.

In 2000, EPA revised AP-42 Section 11.1. EPA added and revised emission factors for the criteria pollutants (most formed from combustion) from hot mix batch and drum plants. The new factors are generally higher for CO and NO_x. Therefore, this permit will incorporate the worst case scenario emission factors from AP-42 Section 11.1 for CO and NO_x.

Pollutant	PTE (TPY) (Section 1.1)	PTE (TPY) (Section 11.1)	Worst Case PTE (TPY)
CO	25.75	262.80	262.80
NO_x	30.66	78.84	78.84

This source modification is subject to 326 IAC 2-7-10.5(f)(4) because the potential to emit PM, PM_{10} , SO_2 , CO and NO_x are each greater than twenty-five (25) tons per year before control. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d), because the modification requires significant changes in existing monitoring Part 70 permit terms and conditions.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. Any control equipment is considered federally enforceable only after issuance of this Part 70 significant source and significant permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (TPY)						
Process / Emission Unit	PM	PM_{10}	SO_2	VOC	CO	NO_X	HAPs
Aggregate Dryer and Burner	36.04(1)	221.86(2)	25.31	6.32	247.22(5)	78.84	0.62
Hot Oil Heater	0.02	0.07	0.01	0.05	0.78	0.93	negligible
Conveying/Handling	1.35	0.64	-	-	-	-	-
Unpaved Roads(3)	124.10	26.39	-	-	-	-	-
Aggregate Storage	0.10	0.04	-	-	-	-	-
Cold-mix VOC storage(4)	-	-	-	242.25	-	-	-
Total Emissions	161.61	249.00	25.32	249.00	249.00	79.77	0.62

(1) Maximum allowable PM emissions pursuant to Subpart I as listed in condition D.1.4.
(2) Maximum allowable PM_{10} emissions to render 326 IAC 2-2 (PSD) not applicable as listed in condition D.1.5(c).
(3) Potential to emit pursuant to control measures outlined in the fugitive dust control plan.
(4) Maximum allowable VOC emissions to render 326 IAC 2-2 (PSD) not applicable as listed in condition D.1.5(f).
(5) Maximum allowable CO emissions to render 326 IAC 2-2 (PSD) not applicable as listed in condition D.1.5(e).

(a) After this modification, the source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of each regulated pollutant is less than 250 tons per year.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to the replacement of the asphalt dryer burner and use of both waste oil and natural gas as primary fuel:

(a) This source will remain subject to the New Source Performance Standards for Standards of Performance for Hot Mix Asphalt Facilities (40 CFR 60.90, Subpart I), which is incorporated by reference as 326 IAC 12. This rule limits PM emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. This is equivalent to a PM emission rate of 8.23 pounds per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM emissions from the aggregate dryer and mixer to 36.04 tons per year for a source-wide total potential to emit of less than 250 tons per year. The source will comply with this rule by continued use of a baghouse that limits PM emissions to less than 0.04 gr/dscf (see Appendix A for detailed calculations).

Nonapplicable portions of the NSPS are not included in the permit. The aggregate dryer and mixer are subject to the following portions of Subpart I.

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

(b) The one (1) 14,000 gallon waste oil storage tank is not subject to the New Source Performance Standards for Standards of Performance for Volatile Organic Liquid Storage Vessels (40 CFR Part 60.11b, Subpart Kb), which is incorporated by reference as 326 IAC 12, because the tank has a storage capacity of less than 75 cubic meters.

(c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) applicable to this proposed modification.

Based on a previous evaluation in the TSD of OP No. T017-15214-03118, the requirements of 40 CFR Part 64, CAM are applicable to the aggregate dryer and burner for PM_{10} upon issuance of the Title V Renewal. A CAM plan must be submitted as part of the Renewal application.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

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

The potential to emit PM, PM_{10}, CO and VOC are all greater than 250 tons per year. Pursuant to T017-15214-03118 and revised by SSM 017-25206-03118, the enforceable limits on PM, PM_{10}, CO and VOC shall be established as follows:

(a) The PM emissions from the aggregate dryer and mixer shall not exceed 8.23 pounds per hour;

(b) The PM emissions from the unpaved roads shall not exceed 28.33 pounds per hour;

(c) The PM_{10} emissions from the aggregate dryer and mixer shall not exceed 50.65 pounds per hour;

(d) The PM_{10} emissions from the unpaved roads shall not exceed 6.03 pounds per hour;

(e) The CO emissions from the aggregate dryer shall not exceed 56.44 pounds per hour; and

(f) The cutback asphalt medium cure liquid binder usage shall not exceed 346.07 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month; and the cut back asphalt medium cure shall contain a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.

Compliance with these limits combined with the potential PM, PM_{10}, CO and VOC emissions from the other emission units, shall limit source-wide PM, PM_{10}, CO and VOC emissions to less than 250 tons per year for each of these pollutants, and render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the source.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The operation of this hot mix asphalt facility will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The aggregate dryer and mixer are 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 326 IAC 2-2 (PSD), 326 IAC 2-3 (Emission Offset), 326 IAC 6-1, 326 IAC 11, 326 IAC 12 or 326 IAC 20. Since the applicable PM emission limit established by 326 IAC 12, 40 CFR 60, Subpart I (8.23 pounds PM per hour) is less than the PM limit that would be established by 326 IAC 326 IAC 6-3-2 (55.44 pounds PM per hour, see Appendix A, page 2 of 4), the more stringent limit applies. Therefore, the limit pursuant to 326 IAC 6-3-2 does not apply.

326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving)
No person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

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

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 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 2-7-5. 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 for this source remain unchanged as a result of this modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. 017-15214-03118. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

Change 1: Mailing addresses are revised as shown in the following table.

Branch or Section	Revised Address
Technical Support and Modeling Section	Indiana Department of Environmental Management Technical Support and Modeling Section, Office of Air Quality 100 North Senate Avenue **MC 61-50 IGCN 1003** Indianapolis, Indiana 46204-2251
Compliance Branch	Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue **MC 61-53 IGCN 1003** Indianapolis, Indiana 46204-2251
Air Compliance Section	Indiana Department of Environmental Management Air Compliance Section, Office of Air Quality 100 North Senate Avenue **MC 61-53 IGCN 1003** Indianapolis, Indiana 46204-2251
Compliance Data Section	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
Permits Branch	Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue **MC 61-53 IGCN 1003** Indianapolis, Indiana 46204-2251
Asbestos Section	Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue **MC 61-52 IGCN 1003** Indianapolis, Indiana 46204-2251

Change 2: Compliance Section Telephone

All references to the IDEM, OAQ, Compliance Section telephone number have been revised as follows: ~~317-233-5674~~ **317-233-0178**.

All references to the IDEM, OAQ, Compliance Section facsimile number have been revised as follows: ~~317-233-5967~~ **317-233-6865**.

Change 3: IDEM, OAQ no longer requires that the responsible official be listed in the permit; therefore, Condition A.1 has been revised to remove the reference to the responsible official. However, OAQ will maintain and update this information in its computer database.

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)][326 IAC 2-7-1(22)]

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

~~Responsible Official:~~	~~Robert J. Brandstatter, President~~
Source Address:	2403 South County Road 150 East, Logansport, Indiana 46947
Mailing Address:	P.O. Box 357, Logansport, Indiana 46947
General Source Phone Number:	574-722-4727
SIC Code:	2951
County Location:	Cass
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 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

Change 4: Sections A.2 and A.3 have been modified to reflect the changes to the emission units.

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

(a) one (1) asphalt dryer**, identified as AD-01,** capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas **or waste oil** fired ~~70~~ **42.27** million British thermal units (MMBtu) per hour burner;
(b) one (1) set of three (3) vibrating screens for classifying dried aggregate;
(c) one (1) mixer for mixing classified aggregate and liquid asphalt;
(d) one (1) baghouse for controlling particulate matter (PM and PM-10) emissions from the dryer and mixer, exhausting at one (1) stack (ID No. SV1);
(e) one (1) aggregate conveyor with a maximum capacity of 150 tons per hour;
(f) production of stockpile mix (cold mix) asphalt; and
(g) one (1) 20,000 gallon liquid asphalt storage tank;

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]

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

(a) one (1) natural gas fired hot oil heater, with a maximum rated capacity of 2.115 million British thermal units per hour;
(b) five (5) hopper bottom aggregate storage bins, each with a capacity of 20 tons;
(c) two (2) 10,000 gallon liquid asphalt storage tanks;
(d) 20% unpaved roads with public access and 80% paved roads;
(e) multiple aggregate storage piles with a total maximum storage capacity of 20,000 tons.
(f) one (1) natural gas fired pre-heater for the asphalt dryer, with a maximum rated capacity of 0.3 million British thermal units per hour; and
(g) one (1) 14,000 gallon waste oil storage tank, identified as AST-WO.

Change 5: To clarify the permit term and the term of the conditions, Conditions B.2 - Permit Term and B.17 - Permit Renewal have been modified. Additionally, a new Section B condition, B.3 - Term of Conditions has been added. The Table of Contents has been modified to reflect the addition of condition B.3 - Term of Conditions.

B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5]**[326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]**

(a) This permit**, T017-15214-03118,** 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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.**

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

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

(a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or

(b) the emission unit to which the condition pertains permanently ceases operation.

B.17 Permit Renewal **[326 IAC 2-7-3]**[326 IAC 2-7-4]**[326 IAC 2-7-8(e)]**

(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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]~~

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

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

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

~~(2) If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.~~

(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) Right to Operate After Application for Renewal [326 IAC 2-7-3]~~
~~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 2-7 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.~~

(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 2-7 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.

~~(d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]~~
~~If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.~~

Change 6: Sections D.2 and D.3 have been incorporated into Section D.1; the Asphalt Dryer**,** identified as AD-01, has been modified in Section D.1; the carbon monoxide emission limitations have been added due to the use of new emission factors for hot mix asphalt plants; and the record keeping/reporting requirements in Section D.1 have been modified as follows:

~~**SECTION D.1 FACILITY OPERATION CONDITIONS**~~

~~**Facility Description [326 IAC 2-7-5(15)]:**~~

~~(a) one (1) asphalt dryer capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas-fired 70 million British thermal units (MMBtu) per hour burner;~~
~~(b) one (1) set of three (3) vibrating screens for classifying dried aggregate;~~
~~(c) one (1) mixer for mixing classified aggregate and liquid asphalt;~~
~~(d) one (1) baghouse for controlling particulate matter (PM and PM-10) emissions from the dryer and mixer, exhausting at one (1) stack (ID No. SV1);~~
~~(e) one (1) aggregate conveyor with a maximum capacity of 150 tons per hour;~~

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

~~**Emission Limitations and Standards [326 IAC 2-7-5(1)]**~~

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

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

~~D.1.2 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.90, Subpart I][326 IAC 2-2]~~

~~Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 8.23 pounds per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM emissions from the mixing and drying operations to 36.04 tons per year for a source-wide total potential to emit of less than 250 tons per year. Therefore, this limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.~~

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

~~Particulate matter 10 microns or less (PM-10) emissions from the aggregate mixing and drying operation shall not exceed 0.337 pound of PM-10 per ton of asphalt mix. This is equivalent to a PM-10 emission limit of 50.65 pounds per hour, including both filterable and condensible fractions, based on a maximum throughput of 150 tons of asphalt mix per hour. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 221.86 tons per year for a source-wide total potential to emit of less than 250 tons per year. Therefore, compliance with this limit will render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.~~

~~D.1.4 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]~~

~~Pursuant to 326 IAC 12, (40 CFR Part 60.92, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the mixing and drying operations shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater.~~

~~D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]~~

~~A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of~~

~~this permit, is required for this facility and any control devices.~~

~~Compliance Determination Requirements~~

~~D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~During the period between July 2007 and January 2008, 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 mixing and drying operation utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM-10 includes filterable and condensible PM-10. Testing shall be conducted in accordance with Section C- Performance Testing.~~

~~D.1.7 Particulate Control~~

~~In order to comply with conditions D.1.2 and D.1.3, the baghouse for particulate control shall be in operation and control emissions from the mixing and drying operation at all times when mixing and drying are in operation.~~

~~Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]~~

~~D.1.8 Visible Emissions Notations~~

~~(a) Visible emission notations of the aggregate dryer, mixer, and burner baghouse stack exhaust and the conveying, material transfer points, and screening 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 steps in accordance with Section C – Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedences shall be considered a violation of this permit.~~

~~D.1.9 Parametric Monitoring~~

~~The Permittee shall record the pressure drop across the baghouse used in conjunction with the mixing and drying operation, at least once per day when the mixing and drying process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedences. 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 Exceedences, shall be considered a violation of 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.1.10 Broken or Failed Bag Detection~~

~~In the event that bag failure has been observed:~~

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

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

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

~~Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]~~

~~D.1.11 Record Keeping Requirements~~

~~(a) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the aggregate dryer, mixer, and burner baghouse stack exhaust and the conveying, material transfer points, and screening once per day.~~

~~(b) To document compliance with Condition D.1.9, the Permittee shall maintain once per day records of the pressure drop during normal operation.~~

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

~~SECTION D.2 FACILITY OPERATION CONDITIONS~~

~~Facility Description [326 IAC 2-7-5(15)]:~~

~~(f) production of stockpile mix (cold mix) asphalt.~~

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

~~Emission Limitations and Standards [326 IAC 2-7-5(1)]~~

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

~~(a) Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the use of cutback asphalt or asphalt emulsion shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:~~

~~(1) penetrating prime coating~~

~~(2) stockpile storage~~

~~(3) application during the months of November, December, January, February and March.~~

~~(b) Cutback asphalt medium cure liquid binder usage shall not exceed 346.07 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis. This is equivalent to limiting the VOC emitted from solvent use to 242.25 tons per twelve (12) consecutive month period, based on the following definition:~~

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

~~This limit will render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.~~

~~Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]~~

~~D.2.2 Record Keeping Requirements~~

~~To document compliance with Condition D.2.1(b), the Permittee shall maintain records in accordance with (a) through (d) below. Records maintained for (a) through (d) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limit established in Condition D.2.1(b). Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.~~

~~(a) Calendar dates covered in the compliance determination period;~~

~~(b) Cutback asphalt medium cure liquid binder usage per month since the last compliance determination period;~~

~~(c) VOC solvent content by weight of the cutback asphalt medium cure liquid binder used each month; and~~

~~(d) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.~~

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

~~D.2.3 Reporting Requirements~~

~~A quarterly summary of the information to document compliance with Condition D.2.1(b) 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 the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~SECTION D.3 FACILITY OPERATION CONDITIONS~~

~~Facility Description [326 IAC 2-7-5(15)]:~~

~~(g) one (1) 20,000 gallon liquid asphalt storage tank.~~

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

~~Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]~~

~~D.3.1 Record Keeping Requirements [326 IAC 12][40 CFR 60.110b, Subpart Kb]~~

~~(a) Pursuant to 40 CFR Part 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels), the one (1) 20,000 gallon asphalt storage tank, with a~~

~~vapor pressure of less than 15.0 kPa, is subject to 40 CFR Part 60.116b, paragraphs (a), (b), and (d) which require record keeping.~~

~~(b) To document compliance with paragraph (a) above, the Permittee shall maintain permanent records at the source in accordance with (1) through (3) below:~~

~~(1) the dimension of the storage vessel;~~

~~(2) an analysis showing the capacity of the storage vessel; and~~

~~(3) the true vapor pressure of the VOC stored in the one (1) 20,000 gallon asphalt storage tank, indicating that the maximum true vapor pressure of VOC is less than 15.0 kPa.~~

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

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

(a) one (1) asphalt dryer, identified as AD-01, capable of processing 150 tons per hour of raw material, equipped with one (1) natural gas or waste oil fired 42.27 million British thermal units (MMBtu) per hour burner;
(b) one (1) set of three (3) vibrating screens for classifying dried aggregate;
(c) one (1) mixer for mixing classified aggregate and liquid asphalt;
(d) one (1) baghouse for controlling particulate matter (PM and PM_{10}) emissions from the dryer and mixer, exhausting at one (1) stack (ID No. SV1);
(e) one (1) aggregate conveyor with a maximum capacity of 150 tons per hour;
(f) one (1) 20,000 gallon liquid asphalt storage tank;
(g) production of stockpile mix (cold mix) asphalt; and
(h) 20% unpaved roads with public access and 80% paved roads.

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

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the cutback asphalt or asphalt emulsion produced shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except as used for the following purposes:

(1) penetrating prime coating

(2) stockpile storage

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

Pursuant to 326 IAC 12, 40 CFR Part 60.110b, Subpart Kb, "Standards of Performance for

Volatile Organic Liquid Storage Vessels," the vapor pressure of the VOC in the one (1) 20,000 gallon asphalt storage tank shall be less than 15.0 kPa.

D.1.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

D.1.4 Particulate Matter (PM) [326 IAC 12] [40 CFR 60.90, Subpart I]

Pursuant to 326 IAC 12, 40 CFR Part 60.90, Subpart I, "Standards of Performance for Hot Mix Asphalt Facilities," the PM emissions from the aggregate dryer and mixer shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf).

D.1.5 PSD Minor Limit [326 IAC 2-2]

(a) The PM emissions from the aggregate dryer and mixer shall not exceed 8.23 pounds per hour;

(b) The PM emissions from the unpaved roads shall not exceed 28.33 pounds per hour;

(c) The PM_{10} emissions from the aggregate dryer and mixer shall not exceed 50.65 pounds per hour;

(d) The PM_{10} emissions from the unpaved roads shall not exceed 6.03 pounds per hour;

(e) The CO emissions from the aggregate dryer shall not exceed 56.44 pounds per hour; and

(f) The cutback asphalt medium cure liquid binder usage shall be less than 346.07 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month; and the cut back asphalt medium cure shall contain a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.

Compliance with these limits combined with the potential PM, PM_{10}, CO and VOC emissions from the other emission units, shall limit source-wide PM, PM_{10}, CO and VOC emissions to less than 250 tons per year for each of these pollutants, and render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the source.

D.1.6 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]

Pursuant to 326 IAC 12, 40 CFR Part 60.92, Subpart I, "Standards of Performance for Hot Mix Asphalt Facilities," the aggregate dryer and mixer shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater.

D.1.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Before January 2008, in order to demonstrate compliance with Conditions D.1.4, D.1.5 and D.1.6, the Permittee shall perform PM and PM_{10} testing for the aggregate dryer and mixer

utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensable PM_{10}. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.9 Particulate Control

In order to comply with conditions D.1.4 and D.1.5, the baghouse for particulate control shall be in operation and control emissions from the mixing and drying operation at all times when mixing and drying are in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.10 Visible Emissions Notations

(a) Visible emission notations of the aggregate dryer and mixer baghouse stack exhaust and the conveying, material transfer points, and screening 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 steps in accordance with Section C – Response to Excursions or Exceedences. Failure to take response steps in accordance with Section C – Response to Excursions or Exceedences shall be considered a violation of this permit.

D.1.11 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse used in conjunction with the mixing and drying operation, at least once per day when the mixing and drying process is in operation. When for any one reading the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedences. 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 Exceedences, shall be considered a violation of 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.1.12 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down

immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

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

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain permanent records at the source in accordance with (1) through (3) below:

(1) the dimension of the storage vessel;

(2) an analysis showing the capacity of the storage vessel; and

(3) the true vapor pressure of the VOC stored in the one (1) 20,000 gallon asphalt storage tank.

(b) To document compliance with Condition D.1.5(f), the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.1.5(f). Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.

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

(2) Cutback asphalt medium cure liquid binder usage per month since the last compliance determination period;

(3) VOC solvent content by weight of the cutback asphalt medium cure liquid binder used each month; and

(4) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.

(c) To document compliance with Condition D.1.10, the Permittee shall maintain a daily record of visible emission notations of the aggregate dryer and mixer baghouse stack exhaust and the conveying, material transfer points, and screening once per day. 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).

(d) To document compliance with Condition D.1.11, the Permittee shall maintain once per day records of the pressure drop of the aggregate dryer and mixer baghouse during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading, (e.g. the process did not operate that day).

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

D.1.14 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.5(f) 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

Conclusion and Recommendation

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 017-25206-03118 and Significant Permit Modification No. 017-25235-03118. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

TSD Appendices

The following is the appendix of this TSD:

Appendix A – Emissions Calculations

IDEM Contact

Questions regarding this proposed permit can be directed to Joe Sachse at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-3350 or toll free at 1-800-451-6027 extension 4-3350.

Appendix A: Emission Calculations

Company Name: Central Paving, Inc.
Plant Location: 2403 South County Road 150 East
County: Cass
Permit Reviewer: Joe Sachse
OP #: T017-15214-03118
SSM #: T017-25206-03118
SPM #: T017-25235-03118

Pre-Heater (natural gas fired, 0.3 MMBtu/hr burner)
New emission unit, considered insignificant activity and not included in summary
Based on 8,760 hours & AP-42, Ch. 1.4, Tables 1.4-1 & 2

$$\text{PTE (TPY)} = \frac{0.3\ \text{MMBtu/hr} \quad * 4.38\ \text{T hr / lb yr} \quad * \text{EF (lb/MMcf)}}{1020\ \text{MMBtu/MMcf}}$$

Pre-Heater	EF (lb/MMcf)	PTE (TPY)
PM	1.9	0.00
PM10	7.6	0.01
SO2	0.6	0.00
NOx	100	0.13
VOC	5.5	0.01
CO	84	0.11

**** Aggregate Dryer Burner ****
(Modification: burning natural gas and waste oil instead of only natural gas)
The following calculations determine the amount of emissions created by waste oil combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, Section 1.11 - Waste Oil Combustion, Tables 1.11-1, 2 & 3.

$$\text{Criteria Pollutant:} \frac{42.27\ \text{MMBtu/hr} * 8{,}760\ \text{hr/yr} \quad * \text{Ef (lb/10}^3\text{gal)}}{140.909\ \text{MMBtu/10}^3\text{gal} * 2{,}000\ \text{lb/ton}} = \text{TPY}$$

	EF (lb/10^3gal)	PTE (TPY)	per Process Info - Combustion FORM PI-02F:
P M:	62.70	82.38	where 62.70 = 66 x 0.95 and 0.95 is the wt % ash in waste oil
P M10:	54.15	71.15	where 54.15 = 57 x 0.95 and 0.95 is the wt % ash in waste oil
S O2:	19.26	25.31	where 19.26 = 107 x 0.18 and 0.18 is the wt % sulfur in waste oil
N Ox:	16.0	21.02	
V O C:	1.0	1.31	
C O:	2.1	2.76	

**** Aggregate Drying: Batch-Mix Plant ****
(Modification: burning natural gas and waste oil instead of only natural gas)
The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-1, 5 & 6 for a waste oil fired batch mix dryer.
Note: In 2000, EPA revised AP-42 Section 11.1. EPA added and revised emission factors for the gas criteria pollutants (most formed from combustion) for hot mix batch plants. The new factors are higher for CO and NOx.
Therefore, the permit shall be revised to incorporate the new factors and limits for CO and NOx.

where PTE (TPY) = EF * 150 T HMA / hr * 8,760 hr/yr * T / 2000 lb

	EF (lb/T)	PTE (TPY)
P M:	32.00	21,024.00
P M10:	4.50	2,956.50
S O2:	0.09	57.82
N Ox:	0.12	78.84
V O C:	0.01	5.01
C O:	0.40	262.80

Note: The VOC emission factor represents the sum of the HAP emission factors from the dryer which were assumed to be VOC.

*** * Miscellaneous * ***

(Unchanged from TSD of OP # T017-15214-03118)

PM Emission Limit : 326 IAC 6-3-2 Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-3-2 (Particulate emission limitations) for process weight rates in excess of 30 tons per hour:

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

where E = rate of emission in pounds per hour

and P = process weight rate in tons per hour

E = 55 * (150 ^ 0.11) - 40 = 55.44 lb/hr or 242.83 TPY

Since the emission limit, pursuant to Subpart I, of **36.04 TPY (see below)** is more stringent than this limit, the limit pursuant to 326 IAC 6-3-2 does not apply. The emission limit pursuant to Subpart I shall also render the requirements of 326 IAC 2-2 (PSD) not applicable.

PM_{10} Emission Limit:

PM_{10}: 249.0 TPY Limit - 27.14 TPY from other sources

= **221.86** TPY PM_{10} = 50.65 lbs/hr

PM_{10} emissions from the aggregate dryer are 99.85% controlled: 2,957 TPY PTE PM_{10} x 0.15 = 4.43 TPY

4.43 TPY is less than 221.86 TPY, and therefore WILL COMPLY

Based on a maximum asphalt mix throughput of 150 tons/hr, this emission limit is equivalent to 50.65 lb PM10/hr or 0.337 lb PM_{10} / T HMA.

CO Emission Limit:

CO: 249.0 TPY Limit - 1.78 TPY from other sources **= 247.22 TPY CO**

$$\frac{247.22 \text{ TPY CO} \times 2000 \text{ lb/T}}{8{,}760 \text{ hr/yr}} = 56.44 \text{ lb/hr CO}$$

or 0.376 lb CO / T HMA, based on maximum asphalt mix throughput of 150 T per hour

Compliance with NSPS (326 IAC 12; 40 CFR 60.90 to 60.93, Subpart I)

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

Aggregate Drying: Batch - Mix Plant

(Unchanged from TSD of OP # T017-15214-03118)

The following calculations determine the amount of worst case emissions created by aggregate drying 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 10 for a waste oil (or natural gas) - fired batch mix dryer:

Pollutant:	EF	lb/ton x	150	ton/hr x	8,760	hr/yr
			2,000	lb/ton		
Criteria Pollutant:	EF		PTE			
P M:	32	lb/ton	21,024.00	TPY		

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

(Unchanged from TSD of OP # T017-15214-03118)

* Emissions of PM and PM_{10} from aggregate drying operations are controlled with a 99.85 % control efficiency.

Aggregate Drying:			nonfugitive			
P M:	21,024	TPY x	0.15%	emitted after controls =	31.54	TPY
PM_{10}:	2,957	TPY x	0.15%	emitted after controls =	4.44	TPY

Aggregate Dryer Baghouse:

31.54	TPY *	2000	lb/ton *	7000	gr/lb =	0.035 gr/dscf	(will comply)
8,760	hr/yr	24,000	dscf/min	60	min/hr		

Allowable particulate emissions under NSPS (0.04 gr/dscf) equate to **36.04** TPY, or 8.23 lbs/hr.

Summary of Emissions from Aggregate Batch Mix Dryer and Burner (Before & After Controls)

	Before PTE (TPY)	After PTE (TPY)
P M:	21,024.00	36.04
P M_{10}:	2,956.50	221.86
S O2:	57.82	57.82
N Ox:	78.84	78.84
V O C:	23.65	23.65
C O:	262.80	247.22

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

The following calculations determine the amount of metal HAP emissions from the dryer, hot screens and mixer based on 8,760 hours of use and US EPA's AP-42, Section 1.11 - Waste Oil Combustion, Table 1.11-4.

Pollutant:	EF	lb/10^3gal x	0.3	10^3gal/hr x	8760	hr/yr		
			2000	lb/ton				
		metal HAPs:			PTE		Limited Emissions	
		Antimony:	4.5E-03	lb/10^3gal =	5.91E-03	TPY	8.87E-06	TPY
		Arsenic:	6.0E-02	lb/10^3gal =	7.88E-02	TPY	1.18E-04	TPY
		Beryllium:	1.8E-03	lb/10^3gal =	2.37E-03	TPY	3.55E-06	TPY
		Cadmium:	1.2E-02	lb/10^3gal =	1.58E-02	TPY	2.37E-05	TPY
		Chromium:	1.8E-01	lb/10^3gal =	2.37E-01	TPY	3.55E-04	TPY
		Cobalt:	5.2E-03	lb/10^3gal =	6.83E-03	TPY	1.02E-05	TPY
		Manganese:	5.0E-02	lb/10^3gal =	6.57E-02	TPY	9.86E-05	TPY
		Nickel:	1.6E-01	lb/10^3gal =	2.10E-01	TPY	3.15E-04	TPY
				Total HAPs =	6.22E-01	TPY	9.33E-04	TPY

The following calculations determine the amount of speciated organic compounds created by aggregate drying before & after controls, based on 8,760 hours of use and US EPA's AP-42, Section 1.11 - Waste Oil Combustion, Table 1.11-5 for a batch mix dryer which can be fired with waste oil.

Pollutant:	EF	lb/10^3gal x	0.3	10^3gal/hr x	8760	hr/yr		
			2000	lb/ton				
		Hazardous Air Pollutants (HAPs):			PTE		Limited Emissions	
		Phenol:	2.80E-05	lb/10^3gal =	0.00	TPY	0.00	TPY
		Naphthalene:	9.20E-05	lb/10^3gal =	0.00	TPY	0.00	TPY
		Phenanthrene/anthracene:	1.00E-04	lb/10^3gal =	0.00	TPY	0.00	TPY
		Dibutylphthalate:	3.40E-05	lb/10^3gal =	0.00	TPY	0.00	TPY
		Pyrene	8.30E-06	lb/10^3gal =	0.00	TPY	0.00	TPY
				Total HAPs =	0.00	TPY	0.00	TPY

*** * Summary of Source HAP Emissions PTE * ***

Hazardous Air Pollutants (HAPs):		
Antimony:	0.01	TPY
Arsenic:	0.08	TPY
Beryllium:	0.00	TPY
Cadmium:	0.02	TPY
Chromium:	0.24	TPY
Cobalt:	0.01	TPY
Manganese:	0.07	TPY
Nickel:	0.21	TPY
Phenol:	0.00	TPY
Naphthalene:	0.00	TPY
Phenanthrene/anthracene:	0.00	TPY
Dibutylphthalate:	0.00	TPY
Pyrene	0.00	TPY
Total:	0.62	TPY

*** * Summary of Source HAP Limited Emissions * ***

Hazardous Air Pollutants (HAPs):		
Antimony:	0.00	TPY
Arsenic:	0.00	TPY
Beryllium:	0.00	TPY
Cadmium:	0.00	TPY
Chromium:	0.00	TPY
Cobalt:	0.00	TPY
Manganese:	0.00	TPY
Nickel:	0.00	TPY
Phenol:	0.00	TPY
Naphthalene:	0.00	TPY
Phenanthrene/anthracene:	0.00	TPY
Dibutylphthalate:	0.00	TPY
Pyrene	0.00	TPY
Total:	0.00	TPY