

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
and ENHANCED NEW SOURCE REVIEW (ENSR)
OFFICE OF AIR MANAGEMENT**

**Tri-County Paving, Inc.
882 N. CR 800 E.
Winslow, Indiana 47598**

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F 125-8450-00035	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

A.1 General Information

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

Responsible Official: Don Ritchey
Source Address: 822 N. CR 800 E., Winslow, Indiana 47598
Mailing Address: P.O. Box 274, Otwell, Indiana 47564
SIC Code: 2951
County Location: Pike
County Status: Attainment for all criteria pollutants
Source Status: Minor Source, FESOP Program
Minor Source, PSD Program

A.2 Emission Units and Pollution Control Summary

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

- (a) One (1) hot mix batch mixer, exhausting through Stack EC-1, equipped with a baghouse for particulate matter control, capacity: 120 tons per hour.
- (b) One (1) 59.45 million British thermal units per hour burner firing natural gas as a primary fuel and #2 distillate oil as backup fuel, also exhausting through Stack EC-1.
- (c) One (1) 1.75 million British thermal units per hour hot oil heater firing natural gas as a primary fuel and #2 distillate oil as backup fuel.
- (d) Two (2) liquid asphalt storage tanks, capacity: 10,000 gallons, each.

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (d) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.
- (e) Cleaners and solvents characterized as follows: having a vapor pressure equal to or less than 2 kilopascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38 degrees Celsius (100 degrees Fahrenheit) or; having a vapor pressure equal to or less than 0.7 kilopascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20 degrees Celsius (68 degrees Fahrenheit); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches soldering equipment, welding equipment.
- (g) Closed loop heating and cooling systems.
- (h) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (i) Heat exchanger cleaning and repair.
- (j) Paved and unpaved roads and parking lots with public access.
- (k) Conveyors as follows: Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983.
- (l) A laboratory as defined in 326 IAC 2-7-1(20)(C).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Enhanced New Source Review [326 IAC 2-1-3.2]

This source is also being reviewed as an Enhanced New Source Review (ENSR) pursuant to 326 IAC 2-1-3.2.

SECTION B GENERAL CONDITIONS

B.1 General Requirements [IC 13-15] [IC 13-17] (Prior to July 1, 1996: IC 13-7 and IC 13-1-1)

The Permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.

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

Terms in this permit shall have the meaning assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11 (prior to July 1, 1996, IC 13-7-2, IC 13-1-1-2), 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-5-5-3 (prior to July 1, 1996, IC 13-7-10-2.5), of the permit.

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

(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.

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

- B.5 Termination of Right to Operate [326 IAC 2-8-9]
The expiration of this permit terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-7.
- B.6 Severability [326 IAC 2-8-4(4)]
- (a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- (b) Indiana rules from 326 IAC quoted in conditions in this permit are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.
- B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]
This permit does not convey any property rights of any sort or any exclusive privilege.
- B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]
- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:
- Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM 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.
- (c) Upon written request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to both U.S. EPA and IDEM, OAM, along with a claim of confidentiality.
- Such confidentiality claims shall meet the requirements of 40 CFR 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAM).
- B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]
IDEM, OAM may issue a compliance order to this Permittee upon discovery that this permit is in non-conformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.
- B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]
- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
- (1) Enforcement action;

- (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
 - (b) 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.
- B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]
Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- A responsible official is defined at 326 IAC 2-7-1(33).
- B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]
- (a) The Permittee shall annually certify that the source has complied with the terms and conditions contained in this permit, including emission limitations, standards, and work practices. The certification shall be submitted July 1 to:
 - Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
 - (b) This annual compliance certification report required by this permit shall be timely if:
 - (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
 - (2) Delivered by any other method if it is received and stamped by IDEM, OAM, on or before the date it is due.
 - (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term and 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.
- B.13 Preventive Maintenance Plan [326 IAC 2-8-5(a)(1)] [326 IAC 2-8-4(9)] [326 IAC 1-6-3]
- (a) The Permittee shall prepare, maintain and implement Preventive Maintenance Plans as necessary including the following information on each:

- (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;
 - (3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;
 - (4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and
 - (5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.
- (b) Preventive Maintenance Plans shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

B.14 Emergency Provision [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided as follows:
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes 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 of this permit;
 - (4) For each emergency lasting longer than one (1) hour, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency occurrence by telephone or facsimile;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967
 - (5) For each emergency lasting longer than one (1) hour, the Permittee submitted written notice or facsimile of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency. The notice shall fulfill the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

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

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(C)(33).

- (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 any emergency or upset provision contained in 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) the Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in clause (B) above.

- B.15 Deviations from Permit Requirements and/or Conditions [326 IAC 2-8-4(3)(C)(ii)]
Deviations from requirements, (for emergencies see Section B - Emergency Provision) the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

Written notification shall be submitted on the attached Deviation Occurrence Reporting Form(s) or their substantial equivalent.

- B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8(a)] [326 IAC 2-8-8(b)] [326 IAC 2-8-8(c)]
- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]
 - (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 (prior to July 1, 1996, in IC 13-7-10-5) or if the Commissioner determines any of the following:
 - (1) That it contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
 - (c) Proceedings by IDEM, OAM, 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 practical. [326 IAC 2-8-8(b)]
 - (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include, at minimum, the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(20).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) The Permittee has a duty to submit a timely and complete permit renewal application. 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) Delivered by U.S. mail and postmarked on or before the date it is due; or
(C) Delivered by any other method if it is received and stamped by IDEM, OAM, on or before the date it is due.

- (2) If IDEM, OAM fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM 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, OAM, any additional information identified as needed to process the application.

B.18 Administrative Permit Amendment [326 IAC 2-8-10]

- (a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).
(b) An administrative permit amendment may be made by IDEM, OAM, consistent with the procedures specified under 326 IAC 2-8-10(b).
(c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]

- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.

- (b) Minor permit modification procedures shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).
- (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).
- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

B.20 Significant Permit Modification [326 IAC 2-8-11(d)]

- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]

Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable FESOP's, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable state implementation plan (SIP) or in applicable requirements promulgated by U.S. EPA.

B.22 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d), without 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) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions);

(3) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

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

(4) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review. Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-8-15(b)(1), (c)(1), and (d).

(b) For each such 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 by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

(c) Emission Trades [326 IAC 2-8-15(c)]

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

- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7) and subject to the constraints in Section (a) of this condition and those in 326 IAC 2-8-15(d).
- (e) Back-up Fuels
Back-up fuel switches and the manufacture of stockpile mix addressed in (and if necessary 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.23 Construction Permit Requirement [326 IAC 2-1]
Modification, construction, or reconstruction shall be permitted as required by and in accordance with 326 IAC 2.

B.24 Inspection and Entry [326 IAC 2-8-5(a)(2)]
Upon presentation of IDEM identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of demonstrating compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of demonstrating compliance with this permit or applicable requirements.
[326 IAC 2-8-5(a)(4)]

B.25 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, consistent with the fee schedule established in 326 IAC 2-8-16.
- (b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.
- (c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM, OAM or in a time period that is consistent with the payment schedule issued by IDEM, OAM.
- (d) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-0178 (ask for OAM, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

B.26 Construction Permit [326 IAC 2-1-2] [326 IAC 2-1-3]

The requirements of the construction permit rules in 326 IAC 2-1-2 and 326 IAC 2-1-3 are satisfied by this permit for any previously unpermitted facilities listed in Section A.2 or A.3.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Construction Conditions [326 IAC 2-1-3.2]

General Construction Conditions

- C.1 The data and information supplied with the application shall be considered part of this permit. Prior to any proposed change in construction which may affect allowable emissions, the change must be approved by the Office of Air Management (OAM).
- C.2 This permit to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

- C.3 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- C.4 Pursuant to 326 IAC 2-1-9(b) (Revocation of Permits), IDEM, OAM may revoke this section of the approved permit if construction is not commenced within eighteen (18) months after receipt of this permit or if construction is suspended for a continuous period of one (1) year or more.
- C.5 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

First Time Operation Permit

- C.6 This document shall also become the first-time operation permit for the facilities under this section of this permit, pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to:

Indiana Department of Environmental Management
Permit Administration & Development Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

verifying that the facilities were constructed as proposed in the application. The facilities covered in this section of this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) The permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this permit.

Emissions Limitations [326 IAC 2-8-4(1)]

C.7 Overall Source Limit [326 IAC 2-8]

Pursuant to 326 IAC 2-8, emissions of any regulated pollutant from the entire source shall not exceed ninety-nine (99) tons per three hundred sixty five (365) day period. Emissions of hazardous air pollutants (HAPs) from the entire source shall not exceed nine (9) tons per three hundred sixty five (365) day period of any individual HAP or twenty-four (24) tons per three hundred sixty five (365) day period of any combination of HAPs. Emissions shall include those from all emission points at the source including those that are insignificant as defined in 326 IAC 2-7-1(20). The source shall be allowed to add insignificant activities not already listed in this permit, as long as the total emissions from the source do not exceed the above specified limits. In the event that any condition or combination of conditions in Section D of this permit differs from the above, the most restrictive limit will prevail.

C.8 Opacity

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (60 readings) in a six (6) hour period.

C.9 Open Burning

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.

C.10 Fugitive Dust Emissions

The Permittee shall be in violation of 326 IAC 6-4 if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated.

C.11 Fugitive Particulate Matter Emission Limitations

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on December 13, 1996. The plan consists of one or more of the following treatments of unpaved roads and parking lots: paving with asphalt or treating with emulsified asphalt, calcium chloride or water on an as-needed basis.

C.12 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 8-5-2 the permittee shall not allow the use of asphalt emulsion containing more than 7 percent oil distillate by volume of emulsion, except as used for the following purposes:

- (a) penetrating prime coating,
- (b) stockpile storage mix, and
- (c) application during the months of November, December, January, February, and March.

There are no federal requirements that apply.

Any change or modification in operations that results in the production of cold mix emulsified asphalt at this source requires prior approval from IDEM, OAM.

C.13 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1]

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos-containing material.

C.14 Stratospheric Ozone Depleting Substance Regulations [326 IAC 22-1] [40 CFR 82]

The Permittee shall comply with the provisions of 40 CFR 82 on the protection of stratospheric ozone.

C.15 Operation of Equipment [326 IAC 2-85(a)(4)]

- (a) All equipment that potentially might emit pollutants into the ambient air shall be properly operated to meet the requirements of this permit and maintained according to the Preventive Maintenance Plan.
- (b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times that the emission unit(s) vented to the control equipment is in operation.
- (c) The Permittee shall perform all necessary maintenance according to the Preventive Maintenance Plan and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times such that the requirements of this permit are met.

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

C.16 Performance Testing

Compliance testing shall be conducted on the batch mixer/dryer for the opacity and grain loading within 60 days to 180 days after initial operation begins, the Permittee shall perform the tests specified in this permit to demonstrate compliance with the applicable rule or permit condition. All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures) and by methods in the approved test protocol. The test protocol shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

at least thirty-five (35) days before the intended test date.[326 IAC 3-2.1-2(a)]

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

C.17 Compliance Monitoring [326 IAC 2-8-4(3)]

Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any additional monitoring no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

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(C)(33).

C.18 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(a)(iii)]

The Permittee shall perform all necessary maintenance and make all necessary attempts to keep all required monitoring equipment in proper operating condition at all times. In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. Preventive Maintenance Plans of the monitors shall be implemented. In addition prompt correction, as indicated, shall be initiated within the time frames specified, whenever the parameters monitored fall outside of the indicated values.

C.19 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR 60, Appendix A, as appropriate, unless some other method is specified in this permit.

C.20 Pressure Gauge Specifications

Whenever a condition in this permit requires the taking of pressure drop across any part of the unit or its control device the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent of full scale and be accurate within plus or minus two percent of full scale reading.

C.21 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.140]

(a) Notification Requirements

(1) The Permittee shall provide IDEM, OAM and U.S. EPA a written notice of intention to demolish or renovate and update such notice as necessary, including, but not limited to, the following:

(A) when the amount of affected asbestos-containing material increases or decreases by at least twenty percent; or

- (B) if there is a change in the following:
 - (i) asbestos removal or demolition start date;
 - (ii) removal or demolition contractor; or
- (C) waste disposal site.
- (2) The Permittee shall postmark or deliver the notice according to the guidelines set forth in 326 IAC 14-10-3(2) and 40 CFR 61.145(b)(3).
- (3) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3) and 40 CFR 61.145(b)(4).

All required information shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c).

Corrective Actions [326 IAC 2-8-4(1)] [326 IAC 2-8-5(1)]

C.22 Failure to Take Corrective Action

For each unit for which parametric monitoring is required, appropriate corrective actions as described in the Preventive Maintenance Plan shall be taken when indicated by monitoring information. Failure to take corrective action following an excursion of a surrogate monitoring parameter within the indicated time will constitute a violation of the permit unless taking the corrective action set forth in the Plan would be unreasonable.

After investigating the reason for the excursion, the Permittee may be excused from taking further corrective action for any of the following reasons:

- (a) Providing that prompt action was taken to correct the monitoring equipment, that the monitoring equipment malfunctioned, giving a false reading; or
- (b) The Permittee has determined that the parameters established in the permit conditions are technically inappropriate and either:

- (1) the Permittee has submitted a request for a permit revision, and the request has not been denied; or
- (2) the Permittee submits a request for a permit revision promptly after determining that the parameters are technically inappropriate.
- (c) An automatic measurement was taken when the process was not operating; or
- (d) The Permittee determines that the process has already returned to operating within "normal" parameters and no corrective action is required.

Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.23 Actions Related to Noncompliance Demonstrated by a Stack Test

Whenever the results of the stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, appropriate corrective actions shall be submitted to IDEM, OAM within thirty (30) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAM that they are not acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

A second test to demonstrate compliance shall be performed within one hundred twenty (120) days. Failure of the second test to demonstrate compliance may be grounds for immediate revocation of the permit to operate the affected facility.

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

C.24 Monitoring Data Availability

All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions. Records shall be kept of the times that the equipment is not operating. If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality. If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded. At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent of the operating time in any quarter. Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason.

C.25 General Record Keeping Requirements

- (a) Records of all required monitoring data and support information 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 kept at the source location and available within one hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include:

- (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) All preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it;
 - (5) Relevant work purchases orders;
 - (6) Quality assurance and quality control procedures;
 - (7) Operator's standard operating procedures;
 - (8) Manufacturer's specifications or their equivalent; and
 - (9) Equipment "troubleshooting" guidance.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.26 General Reporting Requirements

- (a) 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 Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015
- (b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
 - (2) Delivered by any other method if it is received and stamped by IDEM, OAM, on or before the date it is due.
- (c) Unless otherwise specified in this permit any semi-annual report shall be submitted within thirty (30) days of the end of the six (6) month reporting period.
- (d) All instances of deviations from any requirements of this permit must be clearly identified in such reports;

- (e) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.
- (f) The first report shall cover the period commencing the date of issuance of this permit and ending September 30, 1997.

SECTION D.1 FACILITY OPERATION CONDITIONS

- (a) One (1) hot mix batch mixer, exhausting through Stack EC-1, equipped with a baghouse for particulate matter control, capacity: 120 tons per hour.
- (b) One (1) 59.45 million British thermal units per hour burner firing natural gas as a primary fuel and #2 distillate oil as backup fuel, also exhausting through Stack EC-1.
- (c) One (1) 1.75 million British thermal units per hour hot oil heater firing natural gas as a primary fuel and #2 distillate oil as backup fuel.

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

- D.1.1 Sulfur Dioxide (SO₂)
Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the combustion of #2 distillate oil shall be limited to 0.5 pounds per million British thermal units heat input (the equivalent of 0.5 percent sulfur content based on a higher heating value of 0.140 million British thermal units per gallon and a maximum heat input rate of 59.45 million British thermal units per hour).
- D.1.2 Sulfur Dioxide (SO₂)
Pursuant to 326 IAC 2-8-4, the input of #2 distillate oil to the aggregate dryer burner and the hot oil heater shall be limited to 235,714 gallons per month. This fuel usage limitation is equivalent to sulfur dioxide emissions of 8.25 tons per month. This condition will also make 326 IAC 2-2 not applicable.
- D.1.3 Particulate Matter (PM)
Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I), particulate matter emissions from the aggregate dryer/mixer shall not exceed 0.040 grains per dry standard cubic foot (9.38 pounds per hour) and visible emissions from the plant shall not exceed 20 percent opacity. Compliance with these limits will also satisfy 326 IAC 5-1 and 326 IAC 6-3-2. This will make 326 IAC 2-2 not applicable.
- D.1.4 Fine Particulate Matter (PM₁₀)
Pursuant to 326 IAC 2-8-4, PM₁₀ emissions from the aggregate dryer/mixer shall not exceed 1.37 pounds per hour. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

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

- D.1.5 Particulate Matter
During the period between 60 days and 180 days after issuance of this permit, the Permittee shall perform PM and PM₁₀ testing utilizing methods per approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀.

D.1.6 Fuel Oil Sampling and Analysis

Oil samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted. The Permittee shall analyze the oil sample to determine the sulfur content of the oil in accordance with 326 IAC 3-3-4. If a partially empty fuel tank is refilled, a new sample and analysis is required upon filling. Vendor analysis of each load delivered is acceptable, in lieu of the above, if accompanied by a certification.

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

D.1.7 Monitoring of Baghouse Operational Parameters

That the baghouse shall be operated at all times when the aggregate dryer is in operation. The Permittee shall monitor the following parameters:

- (a) The Permittee shall take readings of the total static pressure drop across the baghouse controlling this operation, at least once per shift when the aggregate dryer/mixer process is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 3.0 and 6.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Condition C.20 - Pressure Gauge Specifications, be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.1.8 Daily Visible Emission Notations

Visible emission notations of the conveyers, material transfers, aggregate storage piles, unpaved roads, and the mixing and drying operation stack exhaust shall be performed once per day. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.1.9 Preventive Maintenance [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for these facilities.

D.1.10 Periodic Emissions Testing

The Permittee shall perform particulate emissions testing on the batch mixer/dryer every 5 years in accordance with IDEM requirements.

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

D.1.11 Operational Parameters

The Permittee shall maintain monthly records at the stationary source of the following values:

- (a) Amount of #2 distillate oil used;
- (b) The records for fuel oil shall contain a minimum of the following:
 - (1) Average sulfur content of any fuel oil used;
 - (2) Average higher heating value of any fuel oil used;
 - (3) Average sulfur dioxide emission rate (expressed in pounds per million British thermal unit);
 - (4) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and
 - (5) Regular fuel sampling and analysis performed as specified in 326 IAC 3-3-4, or fuel supplier certifications containing, as a minimum, the following:
 - (A) The name of the oil supplier, and
 - (B) A statement from the oil supplier that certifies the sulfur content of the fuel oil.

D.1.12 Quarterly Reporting

Quarterly summary to document compliance with operation condition numbers D.1.1 and D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, using the enclosed forms or their equivalent, within thirty (30) days after the end of the quarter being reported. These reports shall include the amounts of #2 distillate oil used each month and the fuel oil's average sulfur content in the quarter. All records and reports shall use calendar months. Records of sulfur content and higher heating value shall be determined by information as obtained by the vendor.

State Form 47738 (5-96)

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Tri-County Paving, Inc.
Source Address: 822 N. CR 800 E., Winslow, Indiana 47598
FESOP No.: F 125-8450-00035

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:

- 9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)
- 9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

State Form 47739 (5-96)

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 DEVIATION OCCURRENCE REPORT
 (For Control Equipment Monitoring Only)**

Source Name: Tri-County Paving, Inc.
 Source Address: 822 N. CR 800 E., Winslow, Indiana 47598
 FESOP No.: F 125-8450-00035

A separate copy of this report must be submitted for each monitoring device on all control equipment listed in this permit. Attach a signed certification to complete this report.	
Stack/Vent ID:	
Control Equipment: (ex: thermal oxidizer, scrubber, baghouses)	
Type of Parameter Monitored: (ex: temperature, pressure drop, efficiency)	
9 Continuously	9 Periodically, at a frequency of:
Parameter Operating Restrictions/Range: (ex: 1,400°F, 2-4 psi pressure drop)	
Report Covers From: (date: month/day/yr)	To:
9 No Deviations from the Parameter Restriction/Range Occurred During the Monitoring Period. Complete Records Maintained at the Facility Verify Compliance with this Condition.	
9 Summary of Deviations from the Parameter Restriction/Range During the Monitoring Period are Identified Below. Complete Records Maintained at the Facility.	

	For Parameter Recorded Continuously	For Parameter Recorded Periodically
Total Unit Operating Time		
Total Time of Deviations (Identify All Deviations)		
Percent of Time Indicating Deviations ($\frac{2}{1} \times 100$)		

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

State Form 47741 (5-96)

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

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

Source Name: Tri-County Paving, Inc.
Source Address: 822 N. CR 800 E., Winslow, Indiana 47598
FESOP No.: F 125-8450-00035

If a deviation has occurred a separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit. Attach a signed certification to complete this report.

Stack/Vent ID:
Equipment/Operation:
Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit: (ex: 2500 lb/day, 300 hours/yr, 5000 gallons/month)
Determination Period for this Parameter: (ex: 365-day rolling sum, fixed monthly rate)
9 Permit Has No Rate Limitations for this Parameter.
Content Restriction for this Parameter: (ex: maximum of 40% VOC in inks, 0.5% sulfur content)
Demonstration Method for this Parameter: (ex: MSDS, Supplier, material sampling & analysis)
9 Permit Has No Content Limitations for this Parameter.
Comments:

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

FESOP Quarterly Report

Source Name: Tri-County Paving, Inc.
Source Address: 822 N. CR 800 E., Winslow, Indiana 47598
FESOP No.: F 125-8450-00035
Facility: One (1) 59.45 million British thermal units per hour burner firing natural gas as a primary fuel and #2 distillate oil as backup fuel
One (1) 1.75 million British thermal units per hour hot oil heater firing natural gas as a primary fuel and #2 distillate oil as backup fuel
Parameter: Sulfur dioxide
Limit: 235,714 gallons of #2 distillate fuel oil per month
Equivalent to total source SO₂ emission of 8.25 tons per month

Year: _____

Month	Actual Throughput (Gallons)	Average Sulfur Content (%)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.

Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for an Enhanced New Source Review (ENSR) and Federally Enforceable State Operating Permit (FESOP)

Source Background And Description

Source Name: Tri-County Paving, Inc.
Source Location: 882 N. CR E., Winslow, Indiana 47598
County: Pike
SIC Code: 2951
Operation Permit No.: F 125-8450-00035
Permit Reviewer: Frank P. Castelli

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Tri-County Paving, Inc. relating to the operation of a stationary hot mix batch asphalt manufacturing source. This hot mix batch asphalt manufacturing source does not produce cold mix cutback asphalt.

- (a) One (1) hot mix batch mixer, exhausting through Stack EC-1, equipped with a baghouse for particulate matter control, capacity: 120 tons per hour.
- (b) One (1) 59.45 million British thermal units per hour burner firing natural gas as a primary fuel and #2 distillate oil as backup fuel, also exhausting through Stack EC-1.
- (c) One (1) 1.75 million British thermal units per hour hot oil heater firing natural gas as a primary fuel and #2 distillate oil as backup fuel.
- (d) Two (2) liquid asphalt storage tanks, capacity: 10,000 gallons, each.

The source is scheduled to be constructed June 1 with operations to begin thereafter. This permit will also serve as the new source review Construction Permit for this new source, under 326 IAC 2-1-3.2.

The source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers: Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (d) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

- (e) Cleaners and solvents characterized as follows: having a vapor pressure equal to or less than 2 kilopascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38 degrees Celsius (100 degrees Fahrenheit) or; having a vapor pressure equal to or less than 0.7 kilopascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20 degrees Celsius (68 degrees Fahrenheit); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (f) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches soldering equipment, welding equipment.
- (g) Closed loop heating and cooling systems.
- (h) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (i) Heat exchanger cleaning and repair.
- (j) Paved and unpaved roads and parking lots with public access.
- (k) Conveyors as follows: Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983.
- (l) A laboratory as defined in 326 IAC 2-7-1(20)(C).

Enforcement Issue

There are no Enforcement actions pending.

Recommendation

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

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

A Construction Permit application for the purposes of this review was received on April 14, 1997. Additional information received on April 30 and May 13, 1997 makes the application administratively complete and allows for the processing of an Enhanced New Source and FESOP Review.

Potential to Emit (PTE) Calculations

See Appendix A Potential to Emit (PTE) Calculation for detailed calculations (11 Pages).

Total PTE

PTE is defined as “the maximum capacity of a stationary source to emit a pollutant under its physical and operational design.”

Pollutant	PTE (tons per year)
PM	16,858
PM ₁₀	2,376
SO ₂	134
VOC	0.751
CO	9.57
NO _x	38.3

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAP	PTE (tons per year)
TOTAL HAPs	3.05

Potential to emit (as defined in the Indiana Rule) of sulfur dioxide and PM₁₀ are greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7-1.

A source with “potential to emit” high enough to make it a “major source” but whose actual emissions are below the Part 70 emission levels may elect to avoid the Part 70 Operating Permit Program by agreeing to accept a permit with federally enforceable limits that restrict its PTE to below the major source emission levels. The permit containing these restrictions is called a Federally Enforceable State Operating Permit (FESOP).

County Attainment Status

The source is located in Pike County.

Pollutant	Status (attainment/ severe, moderate, marginal, or maintenance nonattainment)
TSP	Attainment
PM ₁₀	Attainment
SO ₂	Attainment
Ozone	Attainment
CO	Attainment
NO ₂	Attainment

Limited PTE

The source has accepted a federally enforceable PM₁₀ limit of 10.4 tons per year.

The source has accepted a federally enforceable sulfur dioxide limit of 99.0 tons per year.

	Limited PTE (tons per year)						
Process/facility	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPS
Batch dryer/burner & hot oil heater	33.8 (41.1)	4.92 (5.98)	99.0	0.750	9.39	37.5	3.05
Conveying, handling & screening	22.5	2.26	0.00	0.00	0.00	0.00	0.00
Storage piles	0.014	0.005	0.00	0.00	0.00	0.00	0.00
Unpaved roads	6.25	2.19	0.00	0.00	0.00	0.00	0.00
Insignificant activities	negl.	negl.	negl.	negl.	negl.	negl.	negl.
Total Emissions	62.6 (69.9)	9.38 (10.4)	99.0	0.750	9.39	37.5	3.05

Attached Tables 1 to 2 summarize the permit conditions and requirements. Values in parentheses reflect the allowable PM and proportionate PM₁₀ emissions pursuant to NSPS Subpart I grain loading of 0.04 grains per dry standard cubic foot of outlet air.

Federal Rule Applicability

The stationary hot mix batch asphalt manufacturing source is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I). Attached is a copy of the federal rule. Pursuant to NSPS, the following requirements apply to this facility:

- (a) performance tests required as specified in this Subpart and as outlined in Part 60.8 (copy enclosed).
- (b) on or after the date on which the performance tests are completed, no owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:
 - (1) contain particulate matter in excess of 0.04 grains per dry standard cubic foot.
 - (2) exhibit 20 percent opacity, or greater.

The two (2) asphalt cement storage tanks with a capacity of 10,000 gallons, each, are not subject to NSPS, 326 IAC 12, (40 CFR Part 110b, Subpart Kb) since their storage capacity is less than 40 cubic meters.

State Rule Applicability

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM₁₀ and sulfur dioxide shall be limited to 10.4 and 99.0 tons per year, respectively. Therefore, the requirements of 326 IAC 2-7, do not apply. The applicant has accepted fixed monthly fuel oil usage limitations. These SO₂ limitations will also make 326 IAC 2-2 not applicable.

326 IAC 5-1-2 (Visible Emission Limitations)

This rule requires the visible emissions from all operations not subject to NSPS Subpart I to meet the following:

- (a) visible emissions shall not exceed an average of 40 percent opacity in 24 consecutive readings,
- (b) visible emissions shall not exceed 60 percent opacity for more than a cumulative total of 15 minutes (60 readings) in a 6 hour period.

326 IAC 6-3-2 (Process Operations)

The asphalt manufacturing operations are subject to 326 IAC 6-3, Particulate Emission Limitations. 326 IAC 6-3-2 Process Operations limit the particulate matter to $E = 55.0 P^{0.11} - 40$ or 53.1 pounds per hour (233 tons per year) for asphalt manufacturing operations. However, since this PM emission limit of 233 tons per year is greater than the allowable PM emission rate under NSPS Subpart I (41.1 tons per year), the allowable PM emissions will be limited to 9.38 pounds per hour (41.1 tons per year). The PM emissions of 33.8 tons per year after control from the aggregate drying, including combustion, comply with this NSPS rule as well as 326 IAC 6-3-2. These conditions will also make 326 IAC 2-2 not applicable.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This rule requires a fugitive dust plan to be submitted. The plan was submitted on April 30, 1997, reviewed, and approved and consists of installing a water sprinkler system along unpaved roadway and utilizing the system on an as-needed basis. In the near future, the unpaved roads will be paved. The source shall comply with all dust abatement measures contained therein.

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

This rule requires levels of sulfur dioxide emissions from the combustion of #2 distillate fuel oil not to exceed 0.5 pounds per million British thermal units heat input (the equivalent of 0.486% sulfur content at a higher heating value of 140,000 British thermal units per gallon). Based on the information submitted, the sulfur content that will be used is 0.486% or less. Therefore, the unit will be in compliance with the rule.

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

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

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

The company does not produce cutback asphalt, but it still uses asphalt emulsion. No person shall cause or allow the use of asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage
- (c) application during the months of November, December, January, February and March

Compliance Monitoring

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

- (a) The total static pressure drop across the baghouse must be measured and recorded once per shift. The pressure drop for the unit shall be maintained within the range of 3 and 6 inches of water. If the pressure drop is outside this range for more than two consecutive readings, corrective action shall be taken in accordance with the Preventive Maintenance Plan.
- (b) Quarterly reports shall be submitted to OAM. These reports shall include the amounts of #2 fuel oil input to the dryer/burner and hot oil heater per month.

These monitoring conditions are necessary because the baghouse for the aggregate dryer/burner must operate properly to ensure compliance with 326 IAC 12, (40 CFR Part 60.90, Subpart I) and 326 IAC 2-8 (FESOP), and the input primary fuel to the dryer/burner must be limited in order to ensure compliance with 326 IAC 2-8 (FESOP).

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 189 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application GSD-08.

This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Amendments to the Clean Air Act.

Conclusion

The operation of this **hot mix batch asphalt manufacturing source** will be subject to the conditions of the attached proposed **FESOP No. F 125-8450-00035**.

Table 1

Stack/Vent ID: Hot Mix Asphalt Plant & Batch Mixer/Dryer (noncombustion)		
Stack/Vent Dimensions: EC-1 Ht: 29.2 ft Dia: 3.1 ft Temp: 300 F Flow: 44,000 acfm		
Emission Unit: 1		
Date of Construction: 1997		
Alternative Scenario: None		
Pollution Control Equipment: Baghouse		
General Description of Requirement:	Limit PM ₁₀ to below Title V applicability levels	
Numerical Emission Limit:	20% opacity & PM ₁₀ of 0.867 tons per month	PM: 0.04 gr/dscf
Regulation/Citation:	326 IAC 12 (Subpart I) & 326 IAC 2-8-4	326 IAC 12 (Subpart I) & 326 IAC 2-8-4
Compliance Demonstration:	Reporting/Record keeping	
PERFORMANCE TESTING		
Parameter/Pollutant to be Tested:	Opacity/PM	Grain Loading/PM
Testing Method/Analysis:	OAM approved method	OAM approved method
Testing Frequency/Schedule:	Once/within 60 - 180 days of FESOP issuance	Once/within 60 - 180 days of FESOP issuance
Submittal of Test Results:	Within 45 days of testing	Within 45 days of testing
COMPLIANCE MONITORING		
Monitoring Description:	Opacity observations	Pressure reading
Monitoring Method:	Visible	Gauges
Monitoring Regulation/Citation:	326 IAC 12	326 IAC 12
Monitoring Frequency:	Daily	Daily
RECORD KEEPING		
Parameter/Pollutant to be Recorded:	Opacity	Baghouse/PM ₁₀
Recording Frequency:	Daily	As necessary
Submittal Schedule of Reports:	Upon request	Upon request
REPORTING REQUIREMENTS		
Information in Report:	Summary of deviations	
Reporting Frequency/Submittal:	As necessary within 10 days of discovery of deviation	
Additional Comments:		

Table 2

Stack/Vent ID: Batch Mixer/Dryer & Hot Oil Heater (combustion)		
Stack/Vent Dimensions: EC-1 Ht: 29.2 ft Dia: 3.1 ft Temp: 300 F Flow: 44,000 acfm		
Stack/Vent Dimensions: AT-1 Ht: 10.0 ft Dia: 1.0 ft Temp: 550 F Flow: 30,000 acfm		
Emission Unit: 1 & 2		
Date of Construction: 1997		
Alternative Scenario: Mixer/Dryer burner and hot oil heater on fuel oil		
Pollution Control Equipment: Dryer/Baghouse, Hot Heater - None		
General Description of Requirement:	Limit SO ₂ to below Title V applicability levels	
Numerical Emission Limit:	0.5 lbs/MMBtu & 8.25 tons per month	
Regulation/Citation:	326 IAC 7-1.1 & 326 IAC 2-8-4	
Compliance Demonstration:	Reporting/Record keeping	
PERFORMANCE TESTING N/A		
Parameter/Pollutant to be Tested:		
Testing Method/Analysis:		
Testing Frequency/Schedule:		
Submittal of Test Results:		
COMPLIANCE MONITORING		
Monitoring Description:	Record keeping	
Monitoring Method:	Records/vendor certification	
Monitoring Regulation/Citation:	326 IAC 7-2-1	
Monitoring Frequency:	As required by permit	
RECORD KEEPING		
Parameter/Pollutant to be Recorded:	Sulfur content, heat content, and gallons of #2 oil	
Recording Frequency:	As required by permit	
Submittal Schedule of Reports:	Quarterly	
REPORTING REQUIREMENTS		
Information in Report:	#2 Fuel Oil Combusted	
Reporting Frequency/Submittal:	Quarterly	
Additional Comments:		

Indiana Department of Environmental Management Office of Air Management

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

Source Name: Tri-County Paving, Inc.
Source Location: 822 N. CR 800 E., Winslow, Indiana 47598
County: Pike
FESOP: F 125-8450-00035
SIC Code: 2951
Permit Reviewer: Frank P. Castelli

On June 5, 1997, the Office of Air Management (OAM) had a notice published in the Press-Dispatch, Petersburg, Indiana, stating that Tri-County Paving, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a stationary hot mix batch asphalt manufacturing source with a baghouse for particulate matter control. The notice also stated that OAM proposed to issue a FESOP for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

Upon further review, the OAM has decided to make the following change to the FESOP:

The sulfur content limit of the fuel oil pursuant to 326 IAC 7-1 in Condition D.1.1 has been rounded to 0.5%. The condition now reads:

Pursuant to 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the combustion of #2 distillate oil shall be limited to 0.5 pounds per million British thermal units heat input (the equivalent of 0.5 percent sulfur content based on a higher heating value of 0.140 million British thermal units per gallon and a maximum heat input rate of 59.45 million British thermal units per hour).

On August 5, 1997 Eric Parsley of Donan Engineering Co., Inc., submitted comments on behalf of Tri-County Paving on the proposed FESOP. The comments are as follows:

Comment 1:

Page 17 of 29, Section C.12 of the FESOP:

This section refers to VOCs resulting from the use of asphalt emulsion which is commonly used for cold mix asphalt. This is somewhat confusing as no information proposing the use of such asphalt was submitted. Does the permit allow for the use of emulsified asphalt by this source?

Response 1:

The proposed permit does not allow the production of cold mix emulsified asphalt. Form H of the application stated that emulsified asphalt would not be used at this source. The potential VOC emissions from the production of cold mix emulsified asphalt would have to be calculated and a production limit may have to be included as a permit condition if cold mix emulsified asphalt was to be produced. This change would require a modification of the FESOP. Condition C.12 of the FESOP has been revised to add the requirement of prior IDEM, OAM approval before cold mix emulsified asphalt can be produced at this source.

Comment 2:

Page 18, of 29, Section C.16 of the FESOP:

This section requires the sources to conduct opacity and grain loading testing. We question the necessity for these tests and ask if this is standard protocol for all new asphalt batch plants? If testing is required, we would like to change the language to read 60 - 180 days after operation begins *rather than* 60 - 180 days from issuance of the FESOP. Due to some construction scheduling complications the facility may not be fully operational within 60 - 180 days of FESOP issuance.

Response 2:

Stack testing is required for all asphalt plant FESOPs. Testing is required due to the applicability of the Federal New Source Performance Standard (NSPS) Subpart I and to verify compliance with the FESOP PM₁₀ limit due to the large potential PM emissions of asphalt plants.

The language of Condition C.16 has been changed as suggested to require stack testing within 60 to 180 days after initial operation begins rather than within 60 to 180 days of FESOP issuance.

Comment 3:

Page 24 of 29, Section D.1.7 of the FESOP:

This section states that the instrument shall comply with Condition C.14, Stratospheric Ozone Depleting Substance Regulations. This seems incorrect. Condition C.20, Pressure Gauge Specifications seems more suitable. Also, is it common to require pressure gauge calibration every six months?

Response 3:

Condition D.1.7 has been corrected to cite Condition C.20, Pressure Gauge Specifications. The condition to calibrate pressure gauges every six months is a requirement that pertains to all pressure gauges that are necessary to insure the proper operation of the control devices. This is especially important when the proper operation of the control device is vital to insure compliance with a FESOP emission limit.

Comment 4:

Page 24 of 29, Section D.1.10 of the FESOP:

This section requires particulate testing on the batch mixer/dryer *and burner* every five years. As stated in Section C.16, we believe the unit in question should be referred to simply as the batch mixer/ dryer. Also, we would like to take out the requirement to test, or re-test, every five years. If the required operational parameters of the control equipment are monitored and maintained within the proper ranges, the equipment will continue to perform as designed. Therefore, we do not see the need for periodic testing.

Response 4:

The wording of Condition D.1.10 has been revised to be consistent with Condition C.16, which requires stack testing of the batch mixer/dryer. The requirement to re-test every five (5) years relates to the term of the permit.

Comment 5:

Page 24 of 29, Section D.1.11 of the FESOP:

The facility did not submit any information indicating that cold mix asphalt would be made. However, the permit requires record keeping related to liquid binder usage for cold mix asphalt. Does this permit allow the facility to make cold mix asphalt?

Response 5:

As stated in the response to Comment 1, this permit does not allow for the production of cold mix asphalt. Proposed Condition D.1.11 has been deleted from the final FESOP.

Comment 6:

Page 8 of 11, Section II, Allowable Emissions A

To comply with the NSPS Subpart I, the emissions from the aggregate dryer must be less than 41.064 tons/yr. However, we would like clarification of why the limitation was set at 33.8 tons/yr.

Response 6:

The PM limit of the aggregate mixer/dryer is the NSPS subpart I generated limit of 41.1 tons per year and not 33.8 tons per year. The spreadsheet on page 8 of 11 of Appendix A of the TSD states that in order to comply, the "following value" must be less than the NSPS limit which was listed "above". The 33.8 tons per year of PM (which is the "following value") is the potential emission rate after controls and since it is less than the NSPS allowable rate of 41.1 tons per year, the mixer/dryer apparently complies (subject to the stack testing) with the NSPS limit. As stated in Condition D.1.3, (page 23 of 29 of the FESOP) PM emissions shall not exceed 9.38 pounds per hour which is equivalent to 41.1 tons per year.

Mail to: Permit Administration & Development Section
Office of Air Management
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

Tri-County Paving, Inc.
P.O. Box 274
Otwell, IN 47564

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

- 1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
- 2. I hold the position of _____ for _____
(Title) (Company Name)
- 3. By virtue of my position with Tri-County Paving, Inc., I have personal knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Tri-County Paving, Inc.
- 4. I hereby certify that Tri-County Paving, Inc., 822 N. CR 800 E., Winslow, Indiana 47598, has constructed the hot mix batch asphalt manufacturing source in conformity with the requirements and intent of the Federally Enforceable State Operating Permit (FESOP) application received by the Office of Air Management on April 14, 1997 and as permitted pursuant to **FESOP No. F 125-8450, Plant ID No. 125-00035** issued on _____.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature

Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 19 _____.

My Commission expires: _____.

Signature

Name (typed or printed)

Appendix A: FESOP Emission Calculations

Company Name: Tri-County Paving, Inc.
Plant Location: 882 N CR 800 E, Winslow, IN
County: Pike
FESOP No.: F-125-8450
Plt. ID: F-125-00035
Date: April 14, 1997
Permit Reviewer: Frank P. Castelli

I. Potential Emissions

A. Source emissions before controls

Hot Oil Heater on Oil

The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ 0.486 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>1.750</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>140000.0</u> Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>0.110</u> tons/yr
P M-10:	1.0 lbs/1000 gal =	<u>0.055</u> tons/yr
S O x:	70.0 lbs/1000 gal =	<u>3.832</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>1.095</u> tons/yr
V O C:	0.2 lbs/1000 gal =	<u>0.011</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.274</u> tons/yr

Hot Oil Heater on Gas

(gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, and EPA SCC #3-05-002-06:

Pollutant:	<u>1.750</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	<u>1000</u> Btu/cf * 2000 lbs/ton	
P M:	13.7 lbs/MMcf =	<u>0.105</u> tons/yr
P M-10:	13.7 lbs/MMcf =	<u>0.105</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.005</u> tons/yr
N O x:	140.0 lbs/MMcf =	<u>1.073</u> tons/yr
V O C:	2.8 lbs/MMcf =	<u>0.021</u> tons/yr
C O:	35.0 lbs/MMcf =	<u>0.268</u> tons/yr

Dryer Burner

(gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, and EPA SCC #3-05-002-06:

Pollutant:	<u>59.450</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	<u>1000</u> Btu/cf * 2000 lbs/ton	
P M:	13.7 lbs/MMcf =	<u>3.5674</u> tons/yr
P M-10:	13.7 lbs/MMcf =	<u>3.567</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.156</u> tons/yr
N O x:	140.0 lbs/MMcf =	<u>36.4547</u> tons/yr
V O C:	2.8 lbs/MMcf =	<u>0.729</u> tons/yr
C O:	35.0 lbs/MMcf =	<u>9.114</u> tons/yr

Dryer Burner (gas/>100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, and EPA SCC #3-05-002-06:

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	13.7 lbs/MMcf =	<u>0.000</u> tons/yr
P M-10:	13.7 lbs/MMcf =	<u>0.000</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.000</u> tons/yr
N O x:	550.0 lbs/MMcf =	<u>0.00</u> tons/yr
V O C:	2.8 lbs/MMcf =	<u>0.000</u> tons/yr
C O:	40.0 lbs/MMcf =	<u>0.000</u> tons/yr

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

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, and EPA SCC #3-05-002-06:

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
P M:	13.7 lbs/MMcf =	<u>0.000</u> tons/yr
P M-10:	13.7 lbs/MMcf =	<u>0.000</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.000</u> tons/yr
N O x:	81.0 lbs/MMcf =	<u>0.000</u> tons/yr
V O C:	2.8 lbs/MMcf =	<u>0.000</u> tons/yr
C O:	40.0 lb/MMcf =	<u>0.000</u> tons/yr

(#2 & #1 oil) Dryer Burner

The following calculations determine the amount of emissions created by #2 & #1 distillate fuel oil @ 0.486 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>59.5</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>140000.0</u> Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>3.720</u> tons/yr
P M-10:	1.0 lbs/1000 gal =	<u>1.860</u> tons/yr
S O x:	70.0 lbs/1000 gal =	<u>130.166</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>37.199</u> tons/yr
V O C:	0.2 lbs/1000 gal =	<u>0.372</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>9.300</u> tons/yr

Hot Oil Heater
And
Dryer/Burner
Based on Limited
Throughput of Oil

2.83
1.41
99.00
28.29
0.283
7.07

(#4 oil/ <100MMBTU)

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ 0.000 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>146000.0</u> Btu/gal * 2000 lbs/ton	
P M:	7.0 lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	6.0 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.2 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(#4 oil/ >100MMBTU)

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ 0.000 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>0.0</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>0.0</u> Btu/gal * 2000 lbs/ton	
P M:	7.0 lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	67.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.1 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	0.6 lbs/1000 gal =	<u>0.000</u> tons/yr

(waste oil/ vaporizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ 0.000 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>0.0</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>0.0</u> Btu/gal * 2000 lbs/ton	
P M:	<u>0.0</u> lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	<u>0.0</u> lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	11.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.1 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	1.7 lbs/1000 gal =	<u>0.000</u> tons/yr

(waste oil/atomizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ 0.000 % sulfur, based on 8760 hours of use and EPA SCC #3-05-002-08:

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>0.000</u> Btu/gal * 2000 lbs/ton	
P M:	<u>0.0</u> lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	<u>0.0</u> lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	16.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.1 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	2.1 lbs/1000 gal =	<u>0.000</u> tons/yr

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

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

P M:	19 lbs/ton x	<u>0.0</u>	tons/hr x	8760 hrs/yr =	<u>0.000</u>	tons/yr
		2000	lbs/ton			
P M-10:	4.4 lbs/ton x	<u>0</u>	tons/hr x	8760 hrs/yr =	<u>0.000</u>	tons/yr
		2000	lbs/ton			
Lead:	3.30000000E-06 lbs/ton x	<u>0</u>	tons/hr x	8760 hrs/yr =	<u>0.000</u>	tons/yr
		2000	lbs/ton			
HAPs:	0.0058 lbs/ton x	<u>0</u>	tons/hr x	8760 hrs/yr =	<u>0.000</u>	tons/yr
		2000	lbs/ton			

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

**** aggregate drying: batch-mix plant ****

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

P M:	32 lbs/ton x	<u>120.0</u>	tons/hr x	8760 hrs/yr =	<u>16819.2</u>	tons/yr
		2000	lbs/ton			
P M-10:	4.5 lbs/ton x	<u>120</u>	tons/hr x	8760 hrs/yr =	<u>2365.2</u>	tons/yr
		2000	lbs/ton			
Lead:	3.30000000E-06 lbs/ton x	<u>120</u>	tons/hr x	8760 hrs/yr =	<u>0.002</u>	tons/yr
		2000	lbs/ton			
HAPs:	0.0058 lbs/ton x	<u>120</u>	tons/hr x	8760 hrs/yr =	<u>3.048</u>	tons/yr
		2000	lbs/ton			

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

**** conveying / handling ****

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

$$E_f = .0032^* \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{\underline{0.014}} \text{ lbs/ton}$$

where k= 1 (particle size multiplier)
 U = 12 mph mean wind speed (worst case)
 M = 1.6 % moisture

P M :	<u>0.014</u> lbs/ton x	<u>114.0</u> tons/hr x	8760 hrs/yr =	<u>6.815</u>	tons/yr
		2000 lbs/ton			
P M-10:	10% of PM =			<u>0.682</u>	tons/yr
Screening	PM: <u>114</u> tons/hr x	0.0315 lbs/ton	/ 2000 lbs/ton x	8760 hrs/yr =	<u>15.729</u> tons/yr
P M-10:	10% of PM =			<u>1.573</u>	tons/yr

AP-42 Ch.11.19.2

**** unpaved roads ****

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

A. Tri-axle Truck

$$\frac{6.0 \text{ trips/hr} \times 0.10 \text{ miles/roundtrip} \times 8760 \text{ hrs/yr}}{8760 \text{ hrs/yr}} = \underline{\underline{5256.0 \text{ miles per year}}}$$

$$E_f = k \cdot 5.9 \cdot \left(\frac{s}{12}\right) \cdot \left(\frac{S}{30}\right) \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \left(\frac{365-p}{365}\right)$$

$$= 4.76 \text{ lbs/mile}$$

- where k = 0.8 (particle size multiplier)
- s = 4.5 % silt content of unpaved roads
- p = 125 days of rain greater than or equal to 0.01 inches
- S = 10.0 miles/hr vehicle speed
- W = 56.00 tons average vehicle weight
- w = 10 wheels

$$\text{PM: } \frac{4.76 \text{ lbs/mi} \times 5256 \text{ miles/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{12.5 \text{ tons/yr}}}$$

$$\text{P M-10: } 35\% \text{ of PM} = \underline{\underline{4.4 \text{ tons/yr}}}$$

B. Front End Loader

$$\frac{0.0 \text{ trips/hr} \times 0.000 \text{ miles/roundtrip} \times 8760 \text{ hrs/yr}}{8760 \text{ hrs/yr}} = \underline{\underline{0.0 \text{ miles per year}}}$$

$$E_f = k \cdot 5.9 \cdot \left(\frac{s}{12}\right) \cdot \left(\frac{S}{30}\right) \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \left(\frac{365-p}{365}\right)$$

$$= 1.84 \text{ lbs/mile}$$

- where k = 0.8 (particle size multiplier)
- s = 4.8 % silt content of unpaved roads
- p = 125 days of rain greater than or equal to 0.01 inches
- S = 8.0 miles/hr vehicle speed
- W = 34.65 tons average vehicle weight
- w = 4 wheels

$$\text{PM: } \frac{1.84 \text{ lbs/mi} \times 0 \text{ miles/yr}}{2000 \text{ lbs/ton}} = \underline{\underline{0.0 \text{ tons/yr}}}$$

$$\text{P M-10: } 35\% \text{ of PM} = \underline{\underline{0.0 \text{ tons/yr}}}$$

C. Semi Truck

$$\frac{0.0 \text{ trips/hr} \times 0.0 \text{ miles/roundtrip} \times 8760 \text{ hrs/yr}}{0.0 \text{ miles per year}}$$

$$E_f = k \cdot 5.9 \cdot (s/12)^2 \cdot (S/30) \cdot (W/3)^{0.7} \cdot (w/4)^{0.5} \cdot ((365-p)/365)$$

= 0.00 lbs/mile

where k = 0.8 (particle size multiplier)

s = 4.8 % silt content of unpaved roads

p = 125 days of rain greater than or equal to 0.01 inches

S = 0.0 miles/hr vehicle speed

W = 0.0 tons average vehicle weight

w = 10 wheels

$$\text{PM: } \frac{0.00 \text{ lbs/mi} \times 0 \text{ miles/yr}}{2000 \text{ lbs/ton}} = 0.000 \text{ tons/yr}$$

$$\text{P M-10: } 35\% \text{ of PM} = 0.000 \text{ tons/yr}$$

$$\begin{aligned} \text{Total PM: } & 12.5 \text{ tons/yr} \\ \text{Total PM-10: } & 4.4 \text{ tons/yr} \end{aligned}$$

**** storage ****

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

$$E_f = 1.7 \cdot (s/1.5) \cdot (365-p)/235 \cdot (f/15)$$

= 1.74 lbs/acre/day for sand

= 1.16 lbs/acre/day for stone

= 1.16 lbs/acre/day for slag

= 1.16 lbs/acre/day for gravel

= 1.16 lbs/acre/day for RAP

where s = 1.5 % silt for sand

s = 1.0 % silt of stone

s = 1.0 % silt of slag

s = 1.0 % silt of gravel

s = 1.0 % silt for RAP

p = 125 days of rain greater than or equal to 0.01 inches

f = 15 % of wind greater than or equal to 12 mph

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

= 0.01 tons/yr for sand

= 0.02 tons/yr for stone

= 0.00 tons/yr for slag

= 0.00 tons/yr for gravel

= 0.00 tons/yr for RAP

$$\text{Total PM: } 0.028 \text{ tons/yr}$$

where sc = 1.5 ,000 tons storage capacity for sand

sc = 5 ,000 tons storage capacity for stone

sc = 0 ,000 tons storage capacity for slag

sc = 0 ,000 tons storage capacity for gravel

sc = 0 ,000 tons storage capacity for RAP

P M-10:	35% of PM =	0.003 tons/yr for sand
	35% of PM =	0.007 tons/yr for stone
	35% of PM =	0.000 tons/yr for slag
	35% of PM =	0.000 tons/yr for gravel
	35% of PM =	0.000 tons/yr for RAP
Total PM-10:		0.010 tons/yr

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

natural gas	#2 oil	#4 oil	waste oil
P M: 16858 tons/yr	P M: 16858.1 tons/yr	P M: 0.000 tons/yr	P M: 0.000 tons/yr
P M-10: 2376 tons/yr	P M-10: 2373.8 tons/yr	P M-10: 0.000 tons/yr	P M-10: 0.000 tons/yr
S O x: 0.161 tons/yr	S O x: 134.0 tons/yr	S O x: 0.000 tons/yr	S O x: 0.000 tons/yr
N O x: 37.5 tons/yr	N O x: 38.3 tons/yr	N O x: 0.000 tons/yr	N O x: 0.000 tons/yr
V O C: 0.751 tons/yr	V O C: 0.383 tons/yr	V O C: 0.000 tons/yr	V O C: 0.000 tons/yr
C O: 9.38 tons/yr	C O: 9.57 tons/yr	C O: 0.000 tons/yr	C O: 0.000 tons/yr
Lead: 0.002 tons/yr	Lead: 0.002 tons/yr	Lead: 0.002 tons/yr	Lead: 0.002 tons/yr
HAPs: 3.05 tons/yr	HAPs: 3.05 tons/yr	HAPs: 0.000 tons/yr	HAPs: 0.000 tons/yr

B. Source emissions after controls

dryer combustion: gas

P M:	3.57 tons/yr x	0.00200 emitted after controls =	0.007 tons/yr
P M-10:	3.57 tons/yr x	0.00200 emitted after controls =	0.007 tons/yr

dryer combustion: #2 oil

P M:	3.72 tons/yr x	0.00200 emitted after controls =	0.007 tons/yr
P M-10:	1.86 tons/yr x	0.00200 emitted after controls =	0.004 tons/yr

hot oil heater combustion: gas

P M:	0.105 tons/yr x	1.00000 emitted after controls =	0.105 tons/yr
P M-10:	0.105 tons/yr x	1.00000 emitted after controls =	0.105 tons/yr

hot oil heater combustion: #2 oil

P M:	0.110 tons/yr x	1.00000 emitted after controls =	0.110 tons/yr
P M-10:	0.055 tons/yr x	1.00000 emitted after controls =	0.055 tons/yr

dryer combustion: #4 oil

P M:	0.00 tons/yr x	0.000 emitted after controls =	0.000 tons/yr
P M-10:	0.00 tons/yr x	0.000 emitted after controls =	0.000 tons/yr

dryer combustion: waste oil

P M:	0.00 tons/yr x	0.000 emitted after controls =	0.000 tons/yr
P M-10:	0.00 tons/yr x	0.000 emitted after controls =	0.000 tons/yr

aggregate drying:

P M:	16819.20 tons/yr x	0.00200 emitted after controls =	33.638 tons/yr
P M-10:	2365.20 tons/yr x	0.00200 emitted after controls =	4.730 tons/yr

conveying/handling:

P M:	6.82 tons/yr x	1.000 emitted after controls =	6.815 tons/yr
P M-10:	0.68 tons/yr x	1.000 emitted after controls =	0.682 tons/yr

screening

P M:	15.73 tons/yr x	<u>1.000</u> emitted after controls =	<u>15.729</u> tons/yr
P M-10:	1.57 tons/yr x	<u>1.000</u> emitted after controls =	<u>1.573</u> tons/yr

unpaved roads:

P M:	12.51 tons/yr x	50.00% emitted after controls =	<u>6.253</u> tons/yr
P M-10:	4.38 tons/yr x	50.00% emitted after controls =	<u>2.189</u> tons/yr

storage:

P M:	0.028 tons/yr x	50.00% emitted after controls =	<u>0.014</u> tons/yr
P M-10:	0.010 tons/yr x	50.00% emitted after controls =	<u>0.005</u> tons/yr

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

	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	<u>62.6</u>	<u>62.6</u>	<u>0.000</u>	<u>0.000</u>	tons/yr
P M-10:	<u>9.29</u>	<u>9.24</u>	<u>0.000</u>	<u>0.000</u>	tons/yr

II. Allowable Emissions

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

$$\begin{aligned}
 & \frac{0.04 \text{ grains}^*}{\text{dscf}} \times \frac{40000.000 \text{ acfm}^*}{460} + \frac{528}{300} \text{ Temp}^* \times \frac{100}{100} \times 1.6 \% \text{ moisture} \\
 & \frac{525600 \text{ minutes}^*}{\text{year}} \times \frac{1}{7000 \text{ grains}} \times \frac{1 \text{ ton}}{2000 \text{ lbs}} = \underline{41.064 \text{ tons/yr}}
 \end{aligned}$$

To meet NSPS Subpart I, the following value must be < amount calculated above 33.8 tons/yr

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

limit:	0.5 lbs/MMBtu		
	0.5 lbs/MMBtu x	<u>140000.0</u> Btu/gal=	<u>70.0</u> lbs/1000gal
	70 lbs/1000gal /	<u>144.0</u> lb/1000 gal =	<u>0.486</u>
		<u>0.486</u> % to comply with 326 IAC 7	

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

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

limit:	1.6 lbs/MMBtu		
	1.6 lbs/MMBtu x	<u>0.000</u> Btu/gal=	0 lbs/1000gal
	0 lbs/1000gal /	<u>100.0</u> lbs/1000 gal =	<u>0.000</u>
		(check burner type)	
		<u>0.000</u> % to comply with 326 IAC 7	

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

limit:	0.5 lbs/MMBtu			
	0.5 lbs/MMBtu x	<u>0.000</u> Btu/gal=		0 lbs/1000gal
	0 lbs/1000gal /	<u>150.0</u> lbs/1000 gal =		<u>0.000</u>
		<u>0.000</u> % to comply with 326 IAC 7		

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON NOx

FUEL USAGE LIMITATION FOR HOT OIL HEATER ALONE (OIL)

1.10 <u>tons NOx</u> year	*	2000 <u>lbs</u> ton	=	2190.00 <u>lbs NOx</u> year
2190 <u>lbs NOx</u> year	/	20 <u>lbs NOx</u> kgal	=	109.50 <u>kgal</u> year
109.50 <u>kgal</u> year	*	99.00 <u>tons/year</u> 1.095 <u>tons/year</u>	=	0.0 <u>gal fuel</u> year

FUEL USAGE LIMITATION FOR BURNER & HEATER (Gas)

37.53 <u>tons NOx</u> year	*	2000 <u>lbs</u> ton	=	75056 <u>lbs NOx</u> year
75056 <u>lbs NOx</u> year	/	140.0 <u>lbs NOx</u> MMcf	=	536.11 <u>MMcf</u> year
536.11 <u>MMcf</u> year	*	99.0 <u>tons/yr</u> 37.53 <u>tons/yr</u>	=	0.0 <u>MMcf</u> year FESOP Limit

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

38.29 <u>tons NOx</u> year	*	2000 <u>lbs</u> ton	=	76587.43 <u>lbs NOx</u> year
76587.43 <u>lbs NOx</u> year	/	20 <u>lbs</u> 1000 gal	=	3829.37 <u>kgal</u> year
3829.37 <u>kgal</u> year	*	99.0 <u>tons/yr</u> 38.29 <u>tons/yr</u>	=	0.0 <u>kgal</u> year FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

$$\begin{array}{lclclcl}
 0.00 \frac{\text{tons NOx}}{\text{year}} & * & & 2000 \frac{\text{lbs}}{\text{ton}} & = & 0.00 \frac{\text{lbs NOx}}{\text{year}} \\
 0.00 \frac{\text{lbs NOx}}{\text{year}} & / & & 0.0 \frac{\text{lbs}}{1000 \text{ gal}} & = & 0.00 \frac{\text{kgal}}{\text{year}} \\
 0.00 \frac{\text{kgal}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} & & = & 0.0 \frac{\text{kgal}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

$$\begin{array}{lclclcl}
 0.00 \frac{\text{tons NOx}}{\text{year}} & * & & 2000 \frac{\text{lbs}}{\text{ton}} & = & 0.00 \frac{\text{lbs NOx}}{\text{year}} \\
 0.00 \frac{\text{lbs NOx}}{\text{year}} & / & & 0.0 \frac{\text{lbs}}{1000 \text{ gal}} & = & 0.00 \frac{\text{kgal}}{\text{year}} \\
 0.00 \frac{\text{kgal}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} & & = & 0.0 \frac{\text{kgal}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

FUEL USAGE LIMITATION: BASED ON SO2

FUEL USAGE LIMITATION FOR HOT OIL HEATER ON OIL

$$\begin{array}{lclclcl}
 3.83 \frac{\text{tons SO2}}{\text{year}} & * & & 2000 \frac{\text{lbs}}{\text{ton}} & = & 7663.248 \frac{\text{lbs SO2}}{\text{year}} \\
 7663.248 \frac{\text{lbs SO2}}{\text{year}} & / & & 70.0 \frac{\text{lbs SO2}}{\text{kgal}} & = & 109.47 \frac{\text{kgal}}{\text{year}} \\
 109.47497142857 \frac{\text{kgal}}{\text{year}} & * & \frac{99.00 \text{ tons/year}}{3.831624 \text{ tons/year}} & & = & 0.0 \frac{\text{gal fuel}}{\text{year}}
 \end{array}$$

FUEL USAGE LIMITATION FOR BURNER AND HOT OIL HEATER (Gas)

$$\begin{array}{lclclcl}
 0.161 \frac{\text{tons SO2}}{\text{year}} & * & & 2000 \frac{\text{lbs}}{\text{ton}} & = & 321.67 \frac{\text{lbs SO2}}{\text{year}} \\
 321.67 \frac{\text{lbs SO2}}{\text{year}} & / & & 0.6 \frac{\text{lbs SO2}}{\text{MMcf}} & = & 536.11 \frac{\text{MMcf}}{\text{year}} \\
 536.11 \frac{\text{MMcf}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{0.16 \text{ tons/yr}} & & = & 0.0 \frac{\text{MMcf}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

$$\begin{array}{rclcl}
 \frac{134.0 \text{ tons SO}_2}{\text{year}} & * & \frac{2000 \text{ lbs}}{\text{ton}} & = & \frac{267994.73 \text{ lbs SO}_2}{\text{year}} \\
 \\
 \frac{267994.73 \text{ lbs SO}_2}{\text{year}} & / & \frac{70.0 \text{ lbs}}{1000 \text{ gal}} & = & \frac{3828496.1437 \text{ gal}}{\text{year}} \\
 \\
 \frac{3828496.14 \text{ gal}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{134.00 \text{ tons/yr}} & = & \frac{2828571.4 \text{ gal}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

$$\begin{array}{rclcl}
 \frac{0.0 \text{ tons SO}_2}{\text{year}} & * & \frac{2000 \text{ lbs}}{\text{ton}} & = & \frac{0 \text{ lbs SO}_2}{\text{year}} \\
 \\
 \frac{0.00 \text{ lbs SO}_2}{\text{year}} & / & \frac{0.0 \text{ lbs}}{1000 \text{ gal}} & = & \frac{0 \text{ gal}}{\text{year}} \\
 \\
 \frac{0.00 \text{ gal}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} & = & \frac{0.0 \text{ gal}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

$$\begin{array}{rclcl}
 \frac{0.0 \text{ tons SO}_2}{\text{year}} & * & \frac{2000 \text{ lbs}}{\text{ton}} & = & \frac{0.00 \text{ lbs SO}_2}{\text{year}} \\
 \\
 \frac{0.00 \text{ lbs SO}_2}{\text{year}} & / & \frac{0.0 \text{ lbs}}{1000 \text{ gal}} & = & \frac{0.00 \text{ gal}}{\text{year}} \\
 \\
 \frac{0.00 \text{ gal}}{\text{year}} & * & \frac{99.0 \text{ tons/yr}}{0.00 \text{ tons/yr}} & = & \frac{0.0 \text{ gal}}{\text{year}} \text{ FESOP Limit}
 \end{array}$$

Subpart I-Standards of Performance for Hot Mix Asphalt Facilities

21287

21287

60.90 Applicability and designation of affected facility.

8231

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

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

26919

[42 FR 37936, July 25, 1977, as amended at 51 FR 12325, Apr. 10, 1986]

12583

60.91 Definitions.

8231

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

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

25639

[51 FR 12325, Apr. 10, 1986]

23335

60.92 Standard for particulate matter.

8231

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

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

(2) Exhibit 20 percent opacity, or greater.

8231

[39 FR 9314, Mar. 8, 1974, as amended at 40 FR 46259, Oct. 6, 1975]

12583

60.93 Test methods and procedures.

8231

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

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

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

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

25639

[54 FR 6667, Feb. 14, 1989]