



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

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Indianapolis, Indiana 46204  
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TO: Interested Parties / Applicant  
DATE: June 30, 2006  
RE: Rieth Riley / 141-22022-00027  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures  
FNPER.dot 03/23/06



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## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**Rieth-Riley Construction Co., Inc,  
25200 State Road 23  
South Bend, Indiana 46614**

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

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

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

Operation Permit No.: F141-22022-00027	
Issued by: Original Signed By: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: June 30, 2006  Expiration Date: June 30, 2011

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## SECTION A SOURCE SUMMARY

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

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

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

Authorized individual:	Environmental Engineer
Source Address	25200 State Road 23, South Bend, Indiana 46614
Mailing Address:	PO Box 477, Goshen, Indiana 46527
General Source Phone:	(574) 875-5183
SIC Code:	2951
Source Location Status:	St. Joseph
	Nonattainment for 8-hour Ozone
	Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP)
	Minor Source, under PSD and Emission Offset Rules;
	Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) drum mixer, constructed in 1988, with a maximum capacity of 425 tons per hour of liquid asphalt, equipped with a baghouse for particulate control and exhausting through stack SV1.
- (b) One (1) drum mixer/ burner, constructed in 2001, with a maximum heat input capacity of 125 MMBtu per hour, firing waste oil as primary fuel, using No. 2 fuel oil, No. 4 fuel oil, natural gas, propane gas, and butane gas as backup fuels, equipped with a baghouse for particulate control and exhausting through Stack SV1.
- (c) One (1) hot oil heater, constructed in 1988, with a maximum heat input capacity of 2.0 MMBtu per hour, firing No. 2 fuel oil as primary fuel, using butane gas and propane gas as backup fuels, and exhausting through Stack SV2.
- (d) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, constructed in 1987, with a maximum capacity of 20,000 gallons each, and exhausting through Stacks SV5 and SV7.
- (e) One (1) tank, identified as 13C, storing liquid asphalt, constructed in 1965, with a maximum capacity 25,000 gallons, and exhausting through stack SV6.
- (f) One (1) tank, identified as 11, storing waste oil or No. 4 distillate oil, constructed in 1987, with a maximum capacity of 17,000 gallons, and exhausting through Stack SV8.
- (g) One (1) tank, identified as 12, storing No. 2 distillate oil, constructed in 1987, with a maximum capacity 25,000 gallons, and exhausting through stack SV9.
- (h) Cold-mix cutback asphalt production, constructed in 1988, with a maximum capacity of 372 tons of aggregate per hour.

Under 40 CFR 60, Subpart I, this is considered an affected facility.

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

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

- (a) Two (2) A.C. tank heaters, firing No. 2 fuel oil as primary fuel, firing propane gas and butane gas as backup fuels, with a maximum heat input capacity of 0.48 million British thermal units per hour, each.
- (b) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

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

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

## **SECTION B GENERAL CONDITIONS**

### **B.1 Permit No Defense [IC 13]**

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

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

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

### **B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]**

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- (a) This permit, F141-22022-00027, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue, in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### **B.4 Term of Conditions [326 IAC 2-1.1-9.5]**

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

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### **B.5 Enforceability [326 IAC 2-8-6]**

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

### **B.6 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]**

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

### **B.7 Severability [326 IAC 2-8-4(4)]**

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

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

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

### **B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

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- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this

permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.

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

**B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

**B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]**

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

**B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;

- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may be required to determine the compliance status of the source.

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

**B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a 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 in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the

emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967  
Northern Regional Office: 574-245-4875

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

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
  - (g) Operations may continue during an emergency only if the following conditions are met:
    - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the

emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

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

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

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

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

**B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]**

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(a) All terms and conditions established prior to F141-22022-00027 and issued pursuant to permitting programs approved into the state implementation plan have been either

(1) incorporated as originally stated,

(2) revised, or

(3) deleted.

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

**B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

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

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

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

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

**B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination**

**[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

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

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

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

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

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

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

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

- (a) The Permittee may make any change or changes at this 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) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

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

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

- (b) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.21 Permit Revision Requirement [326 IAC 2-8-11.1]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

**B.22 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-17-3-2][IC13-30-3-1]**

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

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

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

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Overall Source Limit [326 IAC 2-8]

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

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

#### C.2 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

#### C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), a fugitive particulate matter emissions control plan shall be submitted within ninety (90) days after issuance of this permit.

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

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers

and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

##### **C.9 Performance Testing [326 IAC 3-6]**

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### **C.10 Compliance Requirements [326 IAC 2-1.1-11]**

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The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any

monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

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

**C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

**C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

**C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]**

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- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

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

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

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

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

- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or

before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

### **Stratospheric Ozone Protection**

#### **C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

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

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]: Hot Mix Asphalt

- (a) One (1) drum mixer, constructed in 1988, with a maximum capacity of 425 tons per hour of liquid asphalt, equipped with a baghouse for particulate control and exhausting through stack SV1.
- (b) One (1) drum mixer/ burner, constructed in 2001, with a maximum heat input capacity of 125 MMBtu per hour, firing waste oil as primary fuel, using No. 2 fuel oil, No. 4 fuel oil, natural gas, propane gas, and butane gas as backup fuels, equipped with a baghouse for particulate control and exhausting through Stack SV1.
- (c) One (1) hot oil heater, constructed in 1988, with a maximum heat input capacity of 2.0 MMBtu per hour, firing No. 2 fuel oil as primary fuel, using butane gas and propane gas as backup fuels, and exhausting through Stack SV2.
- (d) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, constructed in 1987, with a maximum capacity of 20,000 gallons each, and exhausting through Stacks SV5 and SV7.
- (e) One (1) tank, identified as 13C, storing liquid asphalt, constructed in 1965, with a maximum capacity 25,000 gallons, and exhausting through stack SV6.
- (f) One (1) tank, identified as 11, storing waste oil or No. 4 distillate oil, constructed in 1987, with a maximum capacity of 17,000 gallons, and exhausting through Stack SV8.
- (g) One (1) tank, identified as 12, storing No. 2 distillate oil, constructed in 1987, with a maximum capacity 25,000 gallons, and exhausting through stack SV9.
- (h) Cold-mix cutback asphalt production, constructed in 1988, with a maximum capacity of 372 tons of aggregate per hour.

Under 40 CFR 60, Subpart I, this is considered an affected facility.

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

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

#### D.1.1 Particulate Matter (PM and PM10) [326 IAC 2-8-4][326 IAC 2-2]

The PM and PM10 emissions shall not exceed 0.233 pounds PM per ton and 0.157 pounds PM10 per ton of asphalt produced, and the amount of asphalt produced shall not exceed 1,000,000 tons per 365 consecutive day period with compliance determined at the end of each day. This limits the entire source PM emissions to less than two hundred fifty (250) tons per year and the entire source PM10 emissions to less than one hundred (100) tons per year. Compliance with these limits render 326 IAC 2-2 (PSD) not applicable for PM and PM10 and 326 IAC 2-7 (Part 70) not applicable for PM10.

#### D.1.2 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 2-8-4][326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4, the waste oil used in the burner shall be limited to less than 1,743,925 gallons per 365 consecutive day period with compliance determined at the end of each day. Compliance with this limit renders 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) not applicable.

- (b) Pursuant to 326 IAC 2-8-4, the sulfur content of the waste oil shall not exceed one percent (1.0%) by weight, with compliance demonstrated on a calendar month average.
- (c) For purposes of determining compliance based on SO<sub>2</sub> emissions, each gallon of No. 2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of No. 4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of propane shall be equivalent to 0.000187 gallons of waste oil, each gallon of butane shall be equivalent to 0.000187 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil.

D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-2]

- (a) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the No. 2 and No. 4 distillate oils shall not exceed five tenth (0.5) pounds per MMBtu, which is equivalent to five tenth percent (0.5%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.
- (b) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the waste oil shall not exceed one and six tenths (1.6) pounds per MMBtu, which is equivalent to 1.062% by weight, with compliance demonstrated on a calendar month average.

D.1.4 Nitrogen Oxides (NO<sub>x</sub>) [326 IAC 2-8-4][326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4, the propane used in the burner shall be limited to less than 10,315,800 gallons per 365 consecutive day period with compliance determined at the end of each day. Compliance with this limit renders 326 IAC 2-3 (Emission Offset) and 326 IAC 2-7 (Part 70) not applicable.
- (b) For purposes of determining compliance based on NO<sub>x</sub> emissions, each gallon of No. 2 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of No. 4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each million cubic feet of natural gas shall be equivalent to 10,000 gallons of propane.

D.1.5 Volatile Organic Compounds (VOC) [326 IAC 2-8-4][326 IAC 2-3][326 IAC 2-2]

The usage of liquid binder in the production of cold mix cutback asphalt shall be limited such that VOC emissions do not exceed 95.94 tons per 365 consecutive day period with compliance determined at the end of each day. Compliance with this limit renders 326 IAC 2-3 (Emission Offset) and 326 IAC 2-7 (Part 70) not applicable.

D.1.6 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

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

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

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

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

## Compliance Determination Requirements

### D.1.8 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

Within 180 days after issuance of this permit, the Permittee shall perform PM and PM<sub>10</sub> testing in order to demonstrate compliance with Condition D.1.1 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. Testing shall be conducted in accordance with Section C- Performance Testing.

### D.1.9 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-2-1]

Compliance with Conditions D.1.2 and D.1.3 shall be determined utilizing one of the following options. Pursuant to 326 IAC 7-2-1 (Sulfur Dioxide Reporting Requirements), compliance shall be demonstrated on a thirty (30) day calendar-month average.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 125 million British thermal units per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

### D.1.10 Particulate Control [326 IAC 2-8-6(6)]

Pursuant to F 141-14093-00027, issued on August 21, 2001, and in order to comply with Condition D.1.1, the baghouses for PM and PM<sub>10</sub> control shall be in operation and control emissions from the mixers/burner at all times that the mixers/burner are in operation and exhausting to the outside atmosphere.

### D.1.11 Volatile Organic Compounds (VOC)

The Permittee shall determine compliance with the VOC emissions limitation in condition D.1.5 based on the following equation: Emissions of VOC (tons) = Amount of diluent Used (tons) x Weight % VOC in diluent.

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

### D.1.12 Visible Emissions Notations

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

- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emission is observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C – Response to Excursions and Exceedances shall be considered a deviation from this permit.

#### D.1.13 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouses used in conjunction with the mixes/burner, at least once per day when the mixing/burning process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and Exceedances. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions and Exceedances, shall be considered a deviation from this permit.

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

#### D.1.14 Broken or Failed Bag Detection

In the event that bag failure has been observed:

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

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

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

### **D.1.15 Cutback Asphalt Production Rate [326 IAC 2-8-4][326 IAC 2-3]**

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To document compliance with Conditions D.1.5 and D.1.6, the Permittee shall maintain daily records at the source of the following values:

- (a) Amount of liquid binder used in the production of cold mix cutback asphalt; and
- (b) Average diluent content of the liquid binder.

### **D.1.16 Record Keeping Requirements[326 IAC 2-8-4][326 IAC 2-2][326 IAC 2-3][326 IAC 7-1.1-2] [326 IAC 7-2-1]**

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- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records of the amount of asphalt produced per day.
- (b) To document compliance with Conditions D.1.2, D.1.3 and D.1.4, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken daily and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> and NO<sub>x</sub> emission limits established in Conditions D.1.2, D.1.3 and D.1.4. For the annual fuel limits, the compliance determination period is the most recent 365 day period. For the sulfur content limit, the compliance determination period is each calendar month.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide and nitrogen oxide emissions;
  - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (4) Fuel supplier certifications;
  - (5) The name of the fuel supplier; and
  - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (c) The Permittee shall maintain records sufficient to verify compliance with the procedures specified in Condition D.1.9. Records shall be maintained for a period of five (5) years and shall be made available upon request by IDEM, OAQ.
  - (d) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the dryer/burner stack exhaust SV1 at least once per day.
  - (e) To document compliance with Condition D.1.13, the Permittee shall maintain records of the pressure drop daily.
  - (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.17 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2(a), D.1.4(a) and D.1.5 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

#### D.1.18 General Provisions Relating to New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities [326 IAC 12-1][40 CFR 60, Subpart A][40 CFR 60, Subpart I]

Facilities [326 IAC 12-1] [40 CFR 60, Subpart A] [40 CFR 60, Subpart I]

The provisions of 40 CFR 60, Subpart A – General Provisions, that are incorporated by reference in 326 IAC 12-1, apply to this source, except when otherwise specified in 40 CFR 60, Subpart I.

#### D.1.19 New Source Performance Standards (NSPS) for Hot Mix Asphalt Facilities [40 CFR 60, Subpart I]

Pursuant to 40 CFR 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR 60, Subpart I specified as follows:

#### **§ 60.90 Applicability and designation of affected facility.**

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

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

#### **§ 60.91 Definitions.**

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

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

#### **§ 60.92 Standard for particulate matter.**

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

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

(2) Exhibit 20 percent opacity, or greater.

#### **§ 60.93 Test methods and procedures.**

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

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

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

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

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

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

Source Name: Rieth-Riley Construction Co., Inc.  
Source Address: 25200 State Road 23, South Bend, Indiana 46614  
Mailing Address: PO Box 477, Goshen, Indiana 46527  
FESOP No.: F141-22022-00027

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

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)\_\_\_\_\_
- Report (specify)\_\_\_\_\_
- Notification (specify)\_\_\_\_\_
- Affidavit (specify)\_\_\_\_\_
- Other (specify)\_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
Phone: 317-233-5674  
Fax: 317-233-5967**

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

Source Name: Rieth-Riley Construction Co., Inc.  
Source Address: 25200 State Road 23, South Bend, Indiana 46614  
Mailing Address: PO Box 477, Goshen, Indiana 46527  
FESOP No.: F141-22022-00027

**This form consists of 2 pages**

**Page 1 of 2**

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16</li></ul>
---

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

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

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

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

A certification is not required for this report.

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

### FESOP Usage Report (Submit Report Quarterly)

Source Name: Rieth-Riley Construction Co., Inc.  
 Source Address: 25200 State Road 23, South Bend, Indiana 46614  
 Mailing Address: PO Box 477, Goshen, Indiana 46527  
 FESOP No.: F141-22022-00027  
 Facility: Mixers/Burner  
 Parameter: Amount of asphalt produced  
 Limit: 1,000,000 tons per 365 consecutive day period with compliance determined at the end of each day.

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)	Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
 Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

### FESOP Usage Report (Submit Report Quarterly)

Source Name: Rieth-Riley Construction Co., Inc.  
 Source Address: 25200 State Road 23, South Bend, Indiana 46614  
 Mailing Address: PO Box 477, Goshen, Indiana 46527  
 FESOP No.: F141-22022-00027

Facility: Burner  
 Parameter: Waste Oil usage

Limit: 1,743,925 gallons of waste oil per 365 consecutive day period, where each gallon of #2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of #4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of propane shall be equivalent to 0.000187 gallons of waste oil, each gallon of butane shall be equivalent to 0.000187 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil, with compliance determined at the end of each day.

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)	Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

No deviation occurred in this month.

Deviation/s occurred in this month.  
 Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

### FESOP Usage Report (Submit Report Quarterly)

Source Name: Rieth-Riley Construction Co., Inc.  
 Source Address: 25200 State Road 23, South Bend, Indiana 46614  
 Mailing Address: PO Box 477, Goshen, Indiana 46527  
 FESOP No.: F141-22022-00027

Facility: Burner

Parameter: Propane usage

Limit: 10,315,800 gallons of propane per 365 consecutive day period, where each gallon of #2 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of #4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each million cubic feet of natural gas shall be equivalent to 10,000 gallons of propane, with compliance determined at the end of each day.

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)	Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
 Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

### FESOP Usage Report (Submit Report Quarterly)

Source Name: Rieth-Riley Construction Co., Inc.  
 Source Address: 25200 State Road 23, South Bend, Indiana 46614  
 Mailing Address: PO Box 477, Goshen, Indiana 46527  
 FESOP No.: F141-22022-00027  
 Facility: Cutback Asphalt Process

Parameter: Volatile Organic Compound (VOC) emissions

Limit: 95.94 tons of VOC emitted per 365 consecutive day period with compliance determined at the end of each day, where VOC emissions (tons) = Amount of diluent Used (tons) x Weight % VOC in diluent.

Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)	Day	This day (tons)	Previous 364 days (tons)	365 day Total (tons)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

No deviation occurred in this month.

Deviation/s occurred in this month.  
 Deviation has been reported on \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Rieth-Riley Construction Co., Inc.  
Source Address: 25200 State Road 23, South Bend, Indiana 46614  
Mailing Address: PO Box 477, Goshen, Indiana 46527  
FESOP No.: F141-22022-00027

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

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

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit  
(FESOP) Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Rieth-Riley Construction Co., Inc.</b>
<b>Source Location:</b>	<b>25200 State Road 23, South Bend, Indiana 46614</b>
<b>County:</b>	<b>St. Joseph</b>
<b>SIC Code:</b>	<b>2951</b>
<b>Operation Permit No.:</b>	<b>F 141-14093-00027</b>
<b>Operation Permit Issuance Date:</b>	<b>August 21, 2001</b>
<b>Permit Renewal No.:</b>	<b>F 141-22022-00027</b>
<b>Permit Reviewer:</b>	<b>Amy Cook</b>

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Rieth-Riley Construction Co., Inc. relating to the operation of a hot mix asphalt production source.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) drum mixer, constructed in 1988, with a maximum capacity of 425 tons per hour of liquid asphalt, equipped with a baghouse for particulate control and exhausting through stack SV1.
- (b) One (1) drum mixer/ burner, constructed in 2001, with a maximum heat input capacity of 125 MMBtu per hour, firing waste oil as primary fuel, using No. 2 fuel oil, No. 4 fuel oil, natural gas, propane gas, and butane gas as backup fuels, equipped with a baghouse for particulate control and exhausting through Stack SV1.
- (c) One (1) hot oil heater, constructed in 1988, with a maximum heat input capacity of 2.0 MMBtu per hour, firing No. 2 fuel oil as primary fuel, using butane gas and propane gas as backup fuels, and exhausting through Stack SV2.
- (d) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, constructed in 1987, with a maximum capacity of 20,000 gallons each, and exhausting through Stacks SV5 and SV7.
- (e) One (1) tank, identified as 13C, storing liquid asphalt, constructed in 1965, with a maximum capacity 25,000 gallons, and exhausting through stack SV6.
- (f) One (1) tank, identified as 11, storing waste oil or No. 4 distillate oil, constructed in 1987, with a maximum capacity of 17,000 gallons, and exhausting through Stack SV8.
- (g) One (1) tank, identified as 12, storing No. 2 distillate oil, constructed in 1987, with a maximum capacity 25,000 gallons, and exhausting through stack SV9.

- (h) Cold-mix cutback asphalt production, constructed in 1988, with a maximum capacity of 372 tons of aggregate per hour.

Under 40 CFR 60, Subpart I, this is considered an affected facility.

### **Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

### **Insignificant Activities**

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

- (a) Two (2) A.C. tank heaters, firing No. 2 fuel oil as primary fuel, firing propane gas and butane gas as backup fuels, with a maximum heat input capacity of 0.48 million British thermal units per hour, each.
- (b) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

### **Existing Approvals**

The source has been operating under the previous FESOP 141-14093-00027, issued on March 21, 2001, with an expiration date of February 1, 2006, and the following amendments and revisions:

- (a) AA 141-18786-00027, issued on July 13, 2004;
- (b) AA 141-19609-00027, issued on October 18, 2004

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) F 141-14093-00027, issued on March 21, 2001

Condition: D.1.22 – Record Keeping

Reason not incorporated: 40 CFR 60, Subpart Kb was revised on July 1, 2004 to change the capacity threshold from 40 m<sup>3</sup> to 75 m<sup>3</sup>. The one (1) tank (11), is no longer subject to 40 CFR 60, Subpart Kb because the storage capacity in the tank is below the 75 m<sup>3</sup> threshold. Also, the two (2) tanks (13A and 13B) and the one (1) tank (12), are no longer subject to 40 CFR 60, Subpart Kb because the tanks have a maximum true vapor pressure less than the 15 kPa threshold. Therefore, Condition D.1.22 (Record Keeping) has been removed from this permit.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on November 16, 2005.

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

### Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are provided in Appendix A of this document (Pages 1 through 9).

### Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	52579
PM-10	12356
SO <sub>2</sub>	417
VOC	Greater than 250
CO	46.31
NO <sub>x</sub>	115.03

HAPs	Unrestricted Potential Emissions (tons/yr)
Total HAPs *	14.15

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

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM10, VOC, NO<sub>x</sub> and SO<sub>2</sub> are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source will be issued a FESOP because the source will limit its emissions below the Title V levels.
- (b) The potential to emit of hazardous air pollutants (HAPs) is less than ten (10) tons per year for single HAP and less than twenty-five (25) tons per year for a combination of HAPs.

### Potential to Emit After Issuance

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

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Drum mixers including burner	116.72 <sup>(1)</sup>	78.5 <sup>(2)</sup>	93.3 <sup>(2)</sup>	3.86	46.0	98.0 <sup>(2)</sup>	14.2
Hot Oil Heater	0.13	0.21	4.51	0.18	0.32	1.34	0.00
Conveying/Handling	4.90	0.49	0.00	0.00	0.00	0.00	0.00
Screening	55.71	5.57	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.499	0.174	0.00	0.00	0.00	0.00	0.00
Cutback Asphalt	0.00	0.00	0.00	Less than 95.94 <sup>(2)</sup>	0.00	0.00	0.00
Unpaved Roads	70.9	14.9	0.00	0.00	0.00	0.00	0.00
Fugitive emissions	0.14	0.14	0.00	0.00	0.00	0.00	0.00
Insignificant Activities	1.00	0.060	2.13	0.023	0.150	0.643	0.00
Total Emissions	Less than 250	Less than 100	Less than 100	Less than 100	46.5	Less than 100	Single <10 Total <25

(1) = Avoidance limit pursuant to 326 IAC 2-2 (PSD).

(2) = Limits pursuant to 326 IAC 2-8 (FESOP).

### County Attainment Status

The source is located in St. Joseph County.

Pollutant	Status
PM-2.5	Attainment
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
1-hour Ozone	Attainment
8-hour Ozone	Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxide (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. St. Joseph County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.
- (b) St. Joseph County has been designated as unclassifiable or attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions. See the State Rule Applicability – Entire Source Section.
- (c) St. Joseph County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the

requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.

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

### Source Status

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

Pollutant	Emissions (tons/yr)
PM	186
PM-10	Less than 100
SO <sub>2</sub>	Less than 100
VOC	Less than 100
CO	46.5
NO <sub>x</sub>	Less than 100
Single HAP	Less than 10
Combination HAPs	Less than 25

- (a) This existing source is **not** a major stationary source because no attainment regulated pollutant is emitted at a rate of two hundred fifty (250) tons per year or greater and no nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or greater, and it is not in one of the 28 listed source categories.

### Federal Rule Applicability

- (a) 40 CFR 60, Subpart I – Standards of Performance for Hot Mix Asphalt Facilities  
This hot mix asphalt production source is subject to this rule because it manufactures hot mix asphalt by heating and drying aggregate and mixing with asphalt cements. Nonapplicable portions of this NSPS will not be included in this permit. Therefore, the requirements of 40 CFR 60, Subpart I are as follows:

40 CFR 60.90(a) and (b)  
40 CFR 60.91(a)  
40 CFR 60.92(a)(1) and (2)  
40 CFR 60.93 (a) and (b)(1) and (2)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12, apply to this one (1) continuous hot mix asphalt plant except when otherwise specified in 40 CFR 60, Subpart I.

- (b) 40 CFR 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984
- (1) The one (1) tank, identified as 11, storing waste oil or No. 4 distillate oil, is not subject to this rule because it has a storage capacity of 17,000 gallons each which is less than the applicable capacity of 75 cubic meters (19,812 gallons).

- (2) The two (2) tanks, identified as 13A and 13B, storing liquid asphalt, each with a capacity of 20,000 gallons, the one (1) tank, identified as 13C, storing liquid asphalt, with a capacity of 25,000 gallons, and one (1) tank, identified as 12, storing No. 2 distillate oil, with a capacity of 25,000 gallons are not subject to this rule because although each has a storage capacity greater than the applicable capacity of 75 cubic meters (19,812 gallons), the materials stored in these tanks have a maximum true vapor pressure less than fifteen kilopascals (15 kPa).

Therefore, the requirements of 40 CFR 60, Subpart Kb are not included in this permit.

- (c) 40 CFR 60, Subpart OOO – Standards of Performance for Nonmetallc Mineral Processing Plants  
The hot mix asphalt production source is not subject to this rule because facilities that are subject to 40 CFR 60, Subpart I are not subject to the provisions of Subpart OOO. Therefore, the requirements of 40 CFR 60, Subpart OOO are not included in this permit.
- (d) 40 CFR 60, Subpart UU – Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture  
The hot mix asphalt production source is not subject to this rule because this NSPS applies only to asphalt roofing plants, petroleum refineries and other asphalt processing plants that blow asphalt for the manufacture of asphalt products. This source does not manufacture roofing products, is not a petroleum refinery and does not blow asphalt. Therefore, the requirements of 40 CFR 60, Subpart UU are not included in this permit.
- (e) 40 CFR 60, Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries  
The hot mix asphalt production source is not subject to this rule because this NSPS applies only to sources that process or produce alumina, ball clay, bentonite, diatomite, feldspar, fire clay, fuller's earth, gypsum, industrial sand, kaolin, lightweight aggregate, magnesium compounds, perlite, roofing granules, talc, titanium dioxide, and vermiculite. This source does not process or produce any of these materials. Therefore, the requirements of 40 CFR 60, Subpart UUU are not included in this permit.
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) included in this permit.

### **State Rule Applicability – Entire Source**

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

This source was constructed in 1965, it is not one of the 28 listed source categories, and the PTE of PM, PM<sub>10</sub>, VOC and SO<sub>2</sub> was greater than two hundred fifty (250) tons per year at that time. Pursuant to F 141-5489-00027, issued on December 5, 1996 the source limited emissions of all criteria pollutants to less than PSD thresholds. The source received a modification, F 141-14093-00027, issued on August 21, 2001. However, the emissions remained below two hundred fifty (250) tons per year. The PM limitations are as follows: The PM emissions shall not exceed 0.233 pounds PM per ton of asphalt produced, and the amount of asphalt produced shall not exceed 1,000,000 tons per 365 consecutive day period with compliance determined at the end of each day. This limits the entire source PM to less than two hundred fifty (250) tons per year. The entire source PM<sub>10</sub>, VOC and SO<sub>2</sub> emissions are also limited to less than two hundred fifty (250) tons per year as described below under 326 IAC 2-8-4 (FESOP). Compliance with these limits render 326 IAC 2-2 (PSD) not applicable.

#### **326 IAC 2-8-4 (FESOP)**

Pursuant to this rule, the amount of PM<sub>10</sub>, SO<sub>2</sub>, VOC, CO and NO<sub>x</sub> emitted shall be less than one hundred (100) tons per year. In addition, the amount of a single HAP emitted shall be less than ten (10) tons per year and the combination of all HAPs emitted shall be less than twenty-five (25)

tons per year. The potential to emit of PM<sub>10</sub>, SO<sub>2</sub>, VOC and NO<sub>x</sub> is greater than one hundred (100) tons per year. Therefore, the following requirements are necessary:

- (a) PM<sub>10</sub> shall be limited to 0.157 pounds of PM<sub>10</sub> per ton of asphalt produced, and the amount of asphalt produced shall not exceed 1,000,000 tons per 365 consecutive day period with compliance determined at the end of each day. This limit in combination with the PTE of all other PM<sub>10</sub> facilities, limits PM<sub>10</sub> emissions to less than one hundred (100) tons per year.
- (b) The waste oil fuel used in the burner shall be limited to less than 1,743,925 gallons per 365 consecutive day period with compliance determined at the end of each day, and the sulfur content of the waste oil shall not exceed one percent (1.0%) by weight. This limit in combination with the PTE of all other SO<sub>2</sub> facilities, limits SO<sub>2</sub> emissions to less than one hundred (100) tons per year.

For purposes of determining compliance based on SO<sub>2</sub> emissions, each gallon of No. 2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of No. 4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, each gallon of propane shall be equivalent to 0.000187 gallons of waste oil, each gallon of butane shall be equivalent to 0.000187 gallons of waste oil, and each MMcf of natural gas shall be equivalent to 5.607 gallons of waste oil.

- (c) The propane fuel used in the burner shall be limited to less than 10,315,800 gallons per 365 consecutive day period with compliance determined at the end of each day. This limit in combination with the PTE of all other NO<sub>x</sub> facilities, limits NO<sub>x</sub> emissions to less than one hundred (100) tons per year.

For purposes of determining compliance based on NO<sub>x</sub> emissions, each gallon of No. 2 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of No. 4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each MMcf of natural gas shall be equivalent to 10,000 gallons of propane.

- (d) The usage of liquid binder in the production of cold mix cutback asphalt shall be limited such that VOC emissions do not exceed 95.94 tons per 365 consecutive day period with compliance determined at the end of each day. This limit in combination with the PTE of all other VOC facilities, limits VOC emissions to less than one hundred (100) tons per year.

Compliance with these limits makes the requirements of 326 IAC 2-7 (Part 70) not applicable.

#### 326 IAC 1-7 (Stack Height)

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

#### 326 IAC 2-3 (Emission Offset)

The potential volatile organic compound (VOC) and nitrogen oxide (NO<sub>x</sub>) emissions are limited to less than one hundred (100) tons per year pursuant to 326 IAC 2-8-4 (FESOP). Therefore, the requirements of 326 IAC 2-3 (Emission Offset) are not applicable.

#### 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The hot mix asphalt production source was constructed prior to July 1997 with new units constructed in 2001. However, it will emit less than ten (10) tons per year of a single HAP and

less than twenty-five (25) tons per year of a combination of HAPs, unrestricted. Therefore, 326 IAC 2.4-1 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting) because it is not required to have an Operating Permit under 326 IAC 2-7, Part 70 Permit Program, and it does not emit lead in the ambient air at levels equal to or greater than five (5) tons per year, and it is not located in Lake or Porter County.

326 IAC 5-1 (Opacity Limitations)

Since this source is located in St. Joseph county, within the area north of Kern Road and east of Pine Road, pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

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

326 IAC 6-5-1(b) (Fugitive Particulate Matter Emission Limitations)

This source is subject to this rule because it is a new source of particulate matter which did not receive all necessary preconstruction approvals before December 13, 1985, it is located in St. Joseph county, and it requires a permit as set forth in 326 IAC 2. Pursuant to 326 IAC 6-5-3(a) (Submission of Control Plan), the source should have submitted a fugitive particulate matter emissions control plan or requested an exemption from the control plan within six (6) months following December 13, 1985. The source has not submitted a particulate matter emissions control plan. Therefore one must be submitted within ninety (90) days after issuance of this permit.

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

This source is not subject to this rule because it is not located in Lake, Porter, Clark or Floyd county.

326 IAC 8-6-1 (Organic Solvent Emissions Limitations)

The production of cold mix cutback asphalt was constructed after January 1, 1980, and it does have potential VOC emissions greater than the one hundred (100) ton per year. However, this source is not subject to 326 IAC 8-6-1 (Organic Solvent Emissions Limitations) because it is subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving).

326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County)

The limit required under the New Source Performance Standard (NSPS) 40 CFR 60, Subpart I is more stringent than the limits under 326 IAC 6.5-1. Therefore, pursuant to 326 IAC 6-5.1-1(c), the source is not subject to the requirements of 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County).

### State Rule Applicability – Individual Facilities

#### 326 IAC 8-1-6 (New Facilities: General Reduction Requirements (BACT))

Although the production of cold mix cutback asphalt has potential VOC emissions greater than the twenty-five (25) ton per year threshold, this source is not subject to 326 IAC 8-1-6 (BACT) because it is subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving).

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

- (a) The one (1) hot oil heater, is not subject to this rule because it does not have the potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide (SO<sub>2</sub>).
- (b) The counterflow drum mixer and drum mixer/burner, identified as 2 and 3, have a potential to emit twenty-five (25) tons per year or ten (10) pounds per hour of sulfur dioxide (SO<sub>2</sub>). Therefore, pursuant to 326 IAC 7-1.1-2 the following applies:
  - (1) Sulfur dioxide emissions from the combustion of No. 2 distillate and No. 4 distillate fuel oils shall not exceed 0.5 pounds per million British thermal units of heat input (the equivalent of 0.5% sulfur content at a higher heating value of 0.138 MMBtu/gal and a maximum heat input rate of 125 million British thermal units per hour).
  - (2) Sulfur dioxide emissions from the combustion of residual waste oil shall not to exceed 1.6 pounds per million British thermal units of heat input (the equivalent of 1.062% sulfur content at a higher heating value of 0.142 MMBtu/gal and a maximum heat input rate of 125 million British thermal units per hour). The source has requested a voluntary limit of 1.0% sulfur content. See 326 IAC 2-8-4 (FESOP).

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

The drum mixer and drum mixer/burner, are subject to this rule because they have the potential to emit greater than twenty-five (25) tons of SO<sub>2</sub> per year. This rule requires the source to submit to the IDEM, OAQ upon request, records of sulfur content, heat content, fuel consumption, and sulfur dioxide emission rates based on a calendar-month average.

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

This rule applies to any facility or source constructed prior to November 11, 1980 located in St. Joseph county. No person shall not cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

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

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

The source is not subject to this rule because it is not located in Clark, Floyd, Lake or Porter County.

### Testing Requirements

PM, PM10 and opacity testing is required for the drum mixers and dryer/burner exhaust stack SV1 in order to assure compliance with 326 IAC 2-2, 326 IAC 2-8-4, and NSPS Subpart I.

## Compliance Requirements

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

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

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

1. The mixers/burner have applicable compliance monitoring conditions as specified below:
  - (a) Visible emission notations of the conveyers, material transfer points, and the mixers/burner stack exhaust shall be performed at least once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
  - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
  - (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
  - (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
  - (e) If abnormal emission is observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C –Response to Excursions and Exceedances shall be considered a deviation from this permit.
  - (f) The Permittee shall record the pressure drop across the baghouses used in conjunction with the mixes/burner, at least once per day when the mixing/burning process is in operation when venting to the atmosphere. When for any one reading, the pressure drop across the bag collector is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C – Response to Excursions and Exceedances. A pressure reading that is outside of the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C – Response to Excursions and Exceedances, shall be considered a deviation from this permit.

- (g) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.
- (h) In the event that bag failure has been observed:
  - (1) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
  - (2) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emission unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

These monitoring conditions are necessary because the baghouses for the mixers/burner must operate properly to ensure compliance with 40 CFR 60, Subpart I, 326 IAC 2-8-4 (FESOP), 326 IAC 2-2 (PSD), and 326 IAC 2-7 (Part 70).

## **Conclusion**

The operation of this hot mix asphalt production source shall be subject to the conditions of the FESOP 141-22022-00027.

**Appendix A: Emission Calculations**

**Company Name:** Rieth-Riley Construction Co., Inc.  
**Plant Location:** 25200 State Road 23, South Bend, Indiana 46614  
**County:** St. Joseph  
**FESOP:** F 141-22022-00027  
**Plt. ID:** 141-00027  
**Date:** April 6, 2006  
**Permit Reviewer:** Amy Cook

**I. Potential Emissions**

**A. Source emissions before controls**

<b>Hot Oil Heater on Oil (oil/&lt;100MMBTU/uncontrolled)</b>	<b>Hot Oil Heater (butane)</b>
<p>The following calculations determine the amount of emissions created by #2 &amp; #1 distillate fuel oil @ <u>0.5</u> % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3</p> <p>Pollutant: <u>2.000</u> MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)  <u>138000.0</u> Btu/gal * 2000 lbs/ton</p> <p>P M: 2.0 lbs/1000 gal = <u>0.127</u> tons/yr                      PM-10: 3.3 lbs/1000 gal = <u>0.209</u> tons/yr                      S O x: 71.0 lbs/1000 gal = <u>4.507</u> tons/yr                      N O x: 20.0 lbs/1000 gal = <u>1.270</u> tons/yr                      V O C: 0.34 lbs/1000 gal = <u>0.022</u> tons/yr                      C O: 5.0 lbs/1000 gal = <u>0.317</u> tons/yr</p>	<p>The following calculations determine the amount of emissions created by butane gas @ <u>0.20</u> grains sulfur per 100 cubic feet, based on 8760 hours of use and AP-42 Ch. 1.5, Table 1.5-1</p> <p><u>2.000</u> MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)  <u>102600.0</u> Btu/gal * 2000 lbs/ton</p> <p>P M: 0.5 lbs/1000 gal = <u>0.043</u> tons/yr                      PM-10: 0.5 lbs/1000 gal = <u>0.043</u> tons/yr                      S O x: 0.02 lbs/1000 gal = <u>0.002</u> tons/yr                      N O x: 15.0 lbs/1000 gal = <u>1.281</u> tons/yr                      V O C: 0.60 lbs/1000 gal = <u>0.051</u> tons/yr                      C O: 2.1 lbs/1000 gal = <u>0.179</u> tons/yr</p>
<b>Hot Oil Heater on Gas (gas/&lt;100MMBTU/uncontrolled)</b>	<b>Hot Oil Heater (propane)</b>
<p>The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3</p> <p>Pollutant: <u>0.000</u> MMBtu/hr * 8760 hrs/yr * Ef (lbs/MMcf) = (tons/yr)  <u>1000</u> Btu/cf * 2000 lbs/ton</p> <p>P M: 1.9 lbs/MMcf = <u>0.000</u> tons/yr                      P M-10: 7.6 lbs/MMcf = <u>0.000</u> tons/yr                      S O x: 0.6 lbs/MMcf = <u>0.000</u> tons/yr                      N O x: 100.0 lbs/MMcf = <u>0.000</u> tons/yr                      V O C: 5.5 lbs/MMcf = <u>0.000</u> tons/yr                      C O: 84.0 lbs/MMcf = <u>0.000</u> tons/yr</p>	<p>The following calculations determine the amount of emissions created by propane gas @ <u>0.20</u> grains sulfur per 100 cubic feet, based on 8760 hours of use and AP-42 Ch. 1.5, Table 1.5-1</p> <p><u>2.000</u> MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)  <u>91500.0</u> Btu/gal * 2000 lbs/ton</p> <p>P M: 0.4 lbs/1000 gal = <u>0.038</u> tons/yr                      PM-10: 0.4 lbs/1000 gal = <u>0.038</u> tons/yr                      S O x: 0.02 lbs/1000 gal = <u>0.002</u> tons/yr                      N O x: 14.0 lbs/1000 gal = <u>1.340</u> tons/yr                      V O C: 1.90 lbs/1000 gal = <u>0.182</u> tons/yr                      C O: 3.2 lbs/1000 gal = <u>0.306</u> tons/yr</p>

**Burner (gas/>100MMBTU/uncontrolled)**

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

Pollutant:	<u>125.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
	P M:	1.9 lbs/MMcf = <u>1.040</u> tons/yr
	P M-10:	7.6 lbs/MMcf = <u>4.161</u> tons/yr
	S O x:	0.6 lbs/MMcf = <u>0.329</u> tons/yr
Post-NSPS = 190	N O x:	190.0 lbs/MMcf = <u>104.03</u> tons/yr
	V O C:	5.5 lbs/MMcf = <u>3.011</u> tons/yr
	C O:	84.0 lbs/MMcf = <u>45.990</u> tons/yr

**Burner (#2 oil) >100 MMBtu/hr**

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

Pollutant:	<u>125.0</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>138000.0</u> Btu/gal * 2000 lbs/ton	
	P M:	2.0 lbs/1000 gal = <u>7.935</u> tons/yr
	PM-10:	3.3 lbs/1000 gal = <u>13.092</u> tons/yr
	S O x:	71.0 lbs/1000 gal = <u>281.685</u> tons/yr
	N O x:	24.0 lbs/1000 gal = <u>95.217</u> tons/yr
	V O C:	0.20 lbs/1000 gal = <u>0.793</u> tons/yr
	C O:	5.0 lbs/1000 gal = <u>19.837</u> tons/yr

If Rating >100 m

N O x: **24.0**

V O C: **0.20**

**Burner (#4 oil/ >100MMBTU)**

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ 0.500 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	<u>125.0</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>138000.0</u> Btu/gal * 2000 lbs/ton	
	P M:	2.0 lbs/1000 gal = <u>7.935</u> tons/yr
	PM-10:	3.3 lbs/1000 gal = <u>13.092</u> tons/yr
	S O x:	75.0 lbs/1000 gal = <u>297.554</u> tons/yr
	N O x:	24.0 lbs/1000 gal = <u>95.217</u> tons/yr
	V O C:	0.20 lbs/1000 gal = <u>0.793</u> tons/yr
	C O:	5.0 lbs/1000 gal = <u>19.837</u> tons/yr

**Burner (waste oil/burner)**

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

1.000 % Ash  
0.010 % Lead

Pollutant: 125.000 MMBtu/hr \* 8760 hrs/yr \* Ef (lbs/1000 gal) = (tons/yr)  
142000.000 Btu/gal \* 2000 lbs/ton

P M:	66.0 lbs/1000 gal =	<u>254.472</u> tons/yr
P M-10:	57.0 lbs/1000 gal =	<u>219.771</u> tons/yr
S O x:	107.0 lbs/1000 gal =	<u>412.553</u> tons/yr
N O x:	16.0 lbs/1000 gal =	<u>61.690</u> tons/yr
VOC:	1.0 lbs/1000 gal =	<u>3.856</u> tons/yr
C O:	2.10 lbs/1000 gal =	<u>8.097</u> tons/yr
Pb:	0.50 lbs/1000 gal =	<u>1.928</u> tons/yr

**Burner (butane)**

The following calculations determine the amount of emissions created by butane gas @ 0.20 grains sulfur per 100 cubic feet, based on 8760 hours of use and AP-42, Table 1.5-1

Pollutant: 125.000 MMBtu/hr \* 8760 hrs/yr \* Ef (lbs/1000 gal) = (tons/yr)  
102600.0 Btu/gal \* 2000 lbs/ton

P M:	0.6 lbs/1000 gal =	<u>3.202</u> tons/yr
PM-10:	0.6 lbs/1000 gal =	<u>3.202</u> tons/yr
S O x:	0.02 lbs/1000 gal =	<u>0.096</u> tons/yr
N O x:	21.0 lbs/1000 gal =	<u>112.061</u> tons/yr
V O C:	0.26 lbs/1000 gal =	<u>1.387</u> tons/yr
C O:	3.6 lbs/1000 gal =	<u>19.211</u> tons/yr

**Burner (propane)**

The following calculations determine the amount of emissions created by propane gas @ 0.20 grains sulfur per 100 cubic feet, based on 8760 hours of use and AP-42, Table 1.5-1

Pollutant: 125.000 MMBtu/hr \* 8760 hrs/yr \* Ef (lbs/1000 gal) = (tons/yr)  
91500.0 Btu/gal \* 2000 lbs/ton

P M:	0.6 lbs/1000 gal =	<u>3.590</u> tons/yr
PM-10:	0.6 lbs/1000 gal =	<u>3.590</u> tons/yr
S O x:	0.02 lbs/1000 gal =	<u>0.120</u> tons/yr
N O x:	19.0 lbs/1000 gal =	<u>113.689</u> tons/yr
V O C:	0.25 lbs/1000 gal =	<u>1.496</u> tons/yr
C O:	3.2 lbs/1000 gal =	<u>19.148</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 AP-42, Chapter 11.1, Table 11.1-3, rev. 12/00

P M:	28 lbs/ton x	<u>425.0</u>	tons/hr x	8760 hrs/yr =	<u>52122.000</u>	tons/yr
		2000	lbs/ton			
P M-10:	6.5 lbs/ton x	<u>425</u>	tons/hr x	8760 hrs/yr =	<u>12099.750</u>	tons/yr
		2000	lbs/ton			
Lead:	3.30E-06 lbs/ton x	<u>425</u>	tons/hr x	8760 hrs/yr =	<u>0.006</u>	tons/yr
		2000	lbs/ton			
HAPs:	0.0076 lbs/ton x	<u>425</u>	tons/hr x	8760 hrs/yr =	<u>14.147</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>0.0</u>	tons/hr x	8760 hrs/yr =	<u>0.0</u>	tons/yr
		2000	lbs/ton			
P M-10:	4.5 lbs/ton x	<u>0</u>	tons/hr x	8760 hrs/yr =	<u>0.0</u>	tons/yr
		2000	lbs/ton			
Lead:	3.30E-06 lbs/ton x	<u>0</u>	tons/hr x	8760 hrs/yr =	<u>0.000</u>	tons/yr
		2000	lbs/ton			
HAPs:	0.0076 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.

**\*\* 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

$$E_f = .0032^* \frac{(U/5)^{1.3} * k}{(M/2)^{1.4}} = \underline{0.003} \text{ lbs/ton}$$

where k= 1 (particle size multiplier)  
 U = 12 mph mean wind speed (worst case)  
 M = 5.0 % moisture

P M :	<u>0.003</u> lbs/ton x	<u>403.75</u> tons/hr x	8760 hrs/yr =	<u>4.897</u> tons/yr	
		2000 lbs/ton			
P M-10:	10% of PM =			<u>0.490</u> tons/yr	
<b>Screening</b>	PM: <u>403.75</u> tons/hr x	0.0315 lbs/ton	/ 2000 lbs/ton :	8760 hrs/yr =	<u>55.705</u> tons/yr
P M-10:	10% of PM =			<u>5.571</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**

6.75 trips/hr x  
0.212 miles/roundtrip x  
 8760 hrs/yr = 12535.6 miles per year

For PM		For PM-10		
	$E_f = \{k^*[(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c] * [(365-p)/365]$			
8.36	=	1.79	lb/mile	
10	where k =	2.6	r for PM-10) (k=10 for PM-30 or TSP)	
4.8	s =	4.8	t content of unpaved roads	
0.5	b =	0.4	1-10 (b = 0.5 for PM-30 or TSP)	
0.4	c =	0.3	1-10 (c = 0.4 for PM-30 or TSP)	
21	W =	21	verage vehicle weight	
0.2	Mdry =	0.2	content, % (default is 0.2 for dry conditions)	
125	p =	125	.254mm of precipitation (See Figure 13.2.2-1)	
<hr/>		<hr/>		
8.36	lb/mi x	12535.6	mi/yr =	PM <u>52.39</u> tons/yr
<hr/>		<hr/>		
	2000	lb/ton		
<hr/>		<hr/>		
1.79	lb/mi x	12535.6	mi/yr =	PM-10 <u>11.21</u> tons/yr
<hr/>		<hr/>		
	2000	lb/ton		

**B. Misc Other Vehicles**

4.82 trips/hr x  
0.212 miles/roundtrip x  
 8760 hrs/yr = 8951.3 miles per year

For PM		For PM-10		
	$E_f = \{k^*[(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c] * [(365-p)/365]$			
9.65	=	2.01	lb/mile	
10	where k =	2.6	r for PM-10) (k=10 for PM-30 or TSP)	
4.8	s =	4.8	t content of unpaved roads	
0.5	b =	0.4	1-10 (b = 0.5 for PM-30 or TSP)	
0.4	c =	0.3	1-10 (c = 0.4 for PM-30 or TSP)	
28	W =	28	verage vehicle weight	
0.2	Mdry =	0.2	content, % (default is 0.2 for dry conditions)	
125	p =	125	.254mm of precipitation (See Figure 13.2.2-1)	
<hr/>		<hr/>		
9.65	lb/mi x	8951.3	mi/yr =	PM <u>43.20</u> tons/yr
<hr/>		<hr/>		
	2000	lb/ton		
<hr/>		<hr/>		
2.01	lb/mi x	8951.3	mi/yr =	PM-10 <u>8.98</u> tons/yr
<hr/>		<hr/>		
	2000	lb/ton		

**C. Semi Truck**

5.4 trips/hr x  
0.212 miles/roundtrip x  
 8760 hrs/yr = 10028.4 miles per year

For PM		For PM-10		
	$E_f = \{k^*[(s/12)^{0.8}] * [(W/3)^b] / [(Mdry/0.2)^c] * [(365-p)/365]$			
9.21	=	1.93	lb/mile	
10	where k =	2.6	r for PM-10) (k=10 for PM-30 or TSP)	
4.8	s =	4.8	t content of unpaved roads	
0.5	b =	0.4	1-10 (b = 0.5 for PM-30 or TSP)	
0.4	c =	0.3	1-10 (c = 0.4 for PM-30 or TSP)	
25.5	W =	25.5	verage vehicle weight	
0.2	Mdry =	0.2	content, % (default is 0.2 for dry conditions)	
125	p =	125	.254mm of precipitation (See Figure 13.2.2-1)	

	9.21 lb/mi x	10028.448 mi/yr =	PM	<u>46.18</u> tons/yr
		2000 lb/ton		
	1.93 lb/mi x	10028.448 mi/yr =	PM-10	<u>9.69</u> tons/yr
		2000 lb/ton		
<b>All Trucking</b>	Total PM:	<u>141.77</u> tons/yr		
	Total PM-10:	<u>29.89</u> tons/yr		

**\*\* storage \*\***

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

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

Ep (storage) =	<u>Ef * sc * (20 cuft/ton) * (365 days/yr)</u>
	<u>(2000 lbs/ton)*(43560 sqft/acre)*(25 ft)</u>
=	0.076 tons/yr for sand
=	0.194 tons/yr for stone
=	0.000 tons/yr for slag
=	0.097 tons/yr for gravel
=	0.132 tons/yr for RAP
Total PM:	<u>0.499</u> tons/yr

where sc =	<u>13</u> ,000 tons storage capacity for sand
sc =	<u>50</u> ,000 tons storage capacity for stone
sc =	<u>0</u> ,000 tons storage capacity for slag
sc =	<u>25</u> ,000 tons storage capacity for gravel
sc =	<u>34</u> ,000 tons storage capacity for RAP

P M-10:	35% of PM =	<u>0.026</u> tons/yr for sand
	35% of PM =	<u>0.068</u> tons/yr for stone
	35% of PM =	<u>0.000</u> tons/yr for slag
	35% of PM =	<u>0.034</u> tons/yr for gravel
	35% of PM =	<u>0.046</u> tons/yr for RAP
Total PM-10:		<u>0.174</u> tons/yr

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

natural gas	#2 oil	#4 oil	waste oil
P M: <u>#REF!</u> tons/yr	P M: <u>52333</u> tons/yr	P M: <u>#REF!</u> tons/yr	P M: <u>#REF!</u> tons/yr
P M-10: <u>#REF!</u> tons/yr	P M-10: <u>12149</u> tons/yr	P M-10: <u>#REF!</u> tons/yr	P M-10: <u>#REF!</u> tons/yr
S O x: <u>#REF!</u> tons/yr	S O x: <u>286.19</u> tons/yr	S O x: <u>#REF!</u> tons/yr	S O x: <u>#REF!</u> tons/yr
N O x: <u>#REF!</u> tons/yr	N O x: <u>96.56</u> tons/yr	N O x: <u>#REF!</u> tons/yr	N O x: <u>#REF!</u> tons/yr
V O C: <u>#REF!</u> tons/yr	V O C: <u>0.975</u> tons/yr	V O C: <u>#REF!</u> tons/yr	V O C: <u>#REF!</u> tons/yr
C O: <u>#REF!</u> tons/yr	C O: <u>20.15</u> tons/yr	C O: <u>#REF!</u> tons/yr	C O: <u>#REF!</u> tons/yr
Lead: <u>0.006</u> tons/yr	Lead: <u>0.006</u> tons/yr	Lead: <u>0.006</u> tons/yr	Lead: <u>#REF!</u> tons/yr
HAPs: <u>#REF!</u> tons/yr	HAPs: <u>14.15</u> tons/yr	HAPs: <u>#REF!</u> tons/yr	HAPs: <u>#REF!</u> tons/yr

  

butane	propane
P M: <u>52328</u> tons/yr	P M: <u>52329</u> tons/yr
P M-10: <u>12139</u> tons/yr	P M-10: <u>12139</u> tons/yr
S O x: <u>4.60</u> tons/yr	S O x: <u>4.63</u> tons/yr
N O x: <u>113.40</u> tons/yr	N O x: <u>115.03</u> tons/yr
V O C: <u>1.57</u> tons/yr	V O C: <u>1.68</u> tons/yr
C O: <u>19.53</u> tons/yr	C O: <u>19.46</u> tons/yr
Lead: <u>0.006</u> tons/yr	Lead: <u>0.006</u> tons/yr
HAPs: <u>14.15</u> tons/yr	HAPs: <u>14.15</u> tons/yr

**B. Source emissions after controls**

**dryer combustion: gas**

P M: 1.04 tons/yr x 0.00100 emitted after controls = 0.001 tons/yr  
P M-10: 4.16 tons/yr x 0.00100 emitted after controls = 0.004 tons/yr

**dryer combustion: #2 oil**

P M: 7.93 tons/yr x 0.00100 emitted after controls = 0.008 tons/yr  
P M-10: 13.09 tons/yr x 0.00100 emitted after controls = 0.013 tons/yr

**hot oil heater combustion: gas**

P M: 0.000 tons/yr x 1.00000 emitted after controls = 0.000 tons/yr  
P M-10: 0.000 tons/yr x 1.00000 emitted after controls = 0.000 tons/yr

**hot oil heater combustion: #2 oil**

P M: 0.127 tons/yr x 1.00000 emitted after controls = 0.127 tons/yr  
P M-10: 0.209 tons/yr x 1.00000 emitted after controls = 0.209 tons/yr

**hot oil heater combustion: butane**

P M: 0.043 tons/yr x 1.00000 emitted after controls = 0.043 tons/yr  
P M-10: 0.043 tons/yr x 1.00000 emitted after controls = 0.043 tons/yr

**hot oil heater combustion: propane**

P M: 0.038 tons/yr x 1.00000 emitted after controls = 0.038 tons/yr  
P M-10: 0.038 tons/yr x 1.00000 emitted after controls = 0.038 tons/yr

**dryer combustion: #4 oil**

P M: 7.93 tons/yr x 0.00100 emitted after controls = 0.008 tons/yr  
P M-10: 13.09 tons/yr x 0.00100 emitted after controls = 0.013 tons/yr

**dryer combustion: waste oil**

P M: 254.47 tons/yr x 0.00100 emitted after controls = 0.254 tons/yr  
P M-10: 219.77 tons/yr x 0.00100 emitted after controls = 0.220 tons/yr

**dryer combustion: butane**

P M: 3.20 tons/yr x 0.00100 emitted after controls = 0.003 tons/yr  
P M-10: 3.20 tons/yr x 0.00100 emitted after controls = 0.003 tons/yr

**dryer combustion: propane**

P M: 3.59 tons/yr x 0.00100 emitted after controls = 0.004 tons/yr  
 P M-10: 3.59 tons/yr x 0.00100 emitted after controls = 0.004 tons/yr

**aggregate drying:**

P M: 52122.00 tons/yr x 0.00100 emitted after controls = 52.122 tons/yr  
 P M-10: 12099.75 tons/yr x 0.00100 emitted after controls = 12.100 tons/yr

**conveying/handling:**

P M: 4.90 tons/yr x 1.000 emitted after controls = 4.897 tons/yr  
 P M-10: 0.49 tons/yr x 1.000 emitted after controls = 0.490 tons/yr

**screening**

P M: 55.71 tons/yr x 1.000 emitted after controls = 55.705 tons/yr  
 P M-10: 5.57 tons/yr x 1.000 emitted after controls = 5.571 tons/yr

**unpaved roads:**

P M: 141.77 tons/yr x 50.00% emitted after controls = 70.883 tons/yr  
 P M-10: 29.89 tons/yr x 50.00% emitted after controls = 14.945 tons/yr

**storage:**

P M: 0.499 tons/yr x 50.00% emitted after controls = 0.249 tons/yr  
 P M-10: 0.174 tons/yr x 50.00% emitted after controls = 0.087 tons/yr

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

	Butane	Propane	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	<b>183.99</b>	<b>183.99</b>	<b>183.98</b>	<b>183.99</b>	<b>183.99</b>	<b>184.24</b>	tons/yr
P M-10:	<b>33.40</b>	<b>33.40</b>	<b>33.41</b>	<b>33.41</b>	<b>33.41</b>	<b>33.62</b>	tons/yr

**Appendix A: Emission Calculations**

**Company Name:** Rieth-Riley Construction Co., Inc.  
**Plant Location:** 25200 State Road 23, South Bend, Indiana 46614  
**County:** St. Joseph  
**FESOP:** F 141-22022-00027  
**Plt. ID:** 141-00027  
**Date:** March 23, 2006  
**Permit Reviewer:** Amy Cook

**Organic PM and PAH HAP emissions from Load Out and Silo Filling**

Load out emission factor:  $EF = 0.00141(-V)e^{((0.0251)(T+460)-20.43)}$  where:  $V = -0.5$  Percent loss on heating  
 Silo filling emission factor:  $EF = 0.00105(-V)e^{((0.0251)(T+460)-20.43)}$   $T = 325$  Asphalt temperature (deg.F)

Load out emission factor: **0.00034** lbs organic PM/ton asphalt produced      EFs from AP-42 Tables 11.1-14 and 11.1-15  
 Silo filling emission factor: **0.00025** lbs organic PM/ton asphalt produced  
 Annual asphalt limit: **1,000,000.00** tons per year

Pollutant	Load Out/Yard		Silo Filling	
	PAH HAP Specification Profile	Limited Emissions (tons/year)	PAH HAP Specification Profile	Limited Emissions (tons/year)
<b>Total organic PM</b>	<b>NA</b>	<b>0.170</b>	<b>NA</b>	<b>0.127</b>
<b>PAH HAPs</b>				
Acenaphthene	0.26%	0.0004	0.47%	0.0006
Acenaphthylene	0.03%	0.0000	0.01%	0.0000
Anthracene	0.07%	0.0001	0.13%	0.0002
Benzo(a)anthracene	0.02%	0.0000	0.06%	0.0001
Benzo(b)fluoranthene	0.01%	0.0000	ND	0.0000
Benzo(k)fluoranthene	0.00%	0.0000	ND	0.0000
Benzo(g,h,i)perylene	0.00%	0.0000	ND	0.0000
Benzo(a)pyrene	0.00%	0.0000	ND	0.0000
Benzo(e)pyrene	0.01%	0.0000	0.01%	0.0000
Chrysene	0.10%	0.0002	0.21%	0.0003
Dibenz(a,h)anthracene	0.00%	0.0000	ND	0.0000
Fluoranthene	0.05%	0.0001	0.15%	0.0002
Fluorene	0.77%	0.0013	1.01%	0.0013
Indeno(1,2,3-cd)pyrene	0.00%	0.0000	ND	0.0000
2-Methylnaphthalene	2.38%	0.0041	5.27%	0.0067
Naphthalene	1.25%	0.0021	1.82%	0.0023
Perylene	0.02%	0.0000	0.03%	0.0000
Phenanthrene	0.81%	0.0014	1.80%	0.0023
Pyrene	0.15%	0.0003	0.44%	0.0006
<b>Total PAH HAPs</b>	<b>5.93%</b>	<b>0.010</b>	<b>11.41%</b>	<b>0.014</b>
<b>Semi-volatile HAPs</b>				
Phenol	1.18%	0.0020	ND	0.0000

**Total HAPs**

Load Out      0.0430  
 Silo Filling    0.0920  
 Overall Total   0.1350