

VIA CERTIFIED MAIL: 7000 0600 0023 5188 5292

July 6, 2004

Mr. Dean K. Logan
Asphalt Plant Specialist
Rieth-Riley Construction Co., Inc.
P.O. Box 477
Goshen, IN 46527-0477

Re: F097-18769-00089
Second Significant Permit Revision to
FESOP No.: F097-14774-00089

Dear Mr. Logan:

Rieth-Riley Construction Co., Inc., was issued a FESOP renewal permit on September 27, 2002, for its hot mix asphalt plant located at 5165 East 96th Street, Indianapolis, IN 46240. A letter requesting changes to this permit was received by the Indiana Department of Environmental Management, Office of Air Quality (OAQ) and Indianapolis Office of Environmental Services (OES), on March 2, 2004. Pursuant to the provisions of 326 IAC 2-8-11.1(f)(1) and (2), a second significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

The revision consists of changes in the PM and PM-10 limits of the Dryer Burner/Mixer limits based on the addition of new equipment as follows:

- (a) One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing. The rated capacity of the drum mixer will remain the same at 500 tons per hour.

Insignificant Activities

- (a) One (1) 1,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 2003.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the OAQ and OES.
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this

approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.
7. The attached Affidavit of Construction (see form page 37 of the permit) shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section and the Office of Environmental Services (OES), Air Compliance.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM and OES.
 - (2) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2-8-10 or 326 IAC 2-8-11.1 and 326 IAC 2-2 and an Operation Permit Validation Letter is issued.
 - (3) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

All other conditions of the permit shall remain unchanged and in effect. The table of contents has been modified as appropriate for this revision. Please find attached a copy of the revised permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Carmen Bugay of my staff, via e-mail at cbugay@indygov.org or by phone at (317) 327-2512.

Sincerely,

original signed by KV, for

John B. Chavez
Administrator

Enclosures

JBC/cmb

cc: US EPA Region V
Mindy Hahn, IDEM, OAQ
Matt Mosier, Compliance, OES
Carmen Bugay, Air Permits, OES
Files

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP) Renewal
OFFICE OF AIR QUALITY
and
CITY OF INDIANAPOLIS
OFFICE OF ENVIRONMENTAL SERVICES**

Rieth-Riley Construction Co., Inc.
5165 East 96th Street
Indianapolis, Indiana 46240

(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.

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.: F097-14774-00089	
Issued by: original signed by, John B. Chavez Administrator Office of Environmental Services	Issuance Date: September 27, 2002 Expiration Date: September 27, 2007
First Significant Permit Revision No. : F097-16615-00089	
Issued by: original signed by, John B. Chavez Administrator Office of Environmental Services	Issuance Date: March 6, 2003 Expiration Date: September 27, 2007
Second Significant Permit Revision No.: F097-18769-00089 Conditions Revised: A.1, A.2, A.3, C.6, D.1.4, D.1.5, D.1.7- - D.1.19, and D.2.1 Conditions Added: D.1.6 Conditions Deleted: C.19 (Emission Statement)	
Issued by: original signed by KV, for John B. Chavez Administrator Office of Environmental Services	Issuance Date: July 6, 2004 Expiration Date: September 27, 2007

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Stratospheric Ozone Protection

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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) and the City of Indianapolis Office of Environmental Services (OES). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

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

The Permittee owns and operates a stationary hot drum-mix asphalt plant:

Authorized Individual:	Asphalt Plant Specialist
Source Address:	5165 East 96 th Street, Indianapolis, Indiana 46240
Mailing Address:	P.O. Box 477, Goshen, Indiana 46527-0477
SIC Code:	2951
Source Location Status:	Marion
County Status:	Non-attainment for ozone under the 8-hr standard; Attainment for all other criteria pollutants.
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of Clean Air Act.

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

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

- (a) One (1) Drum Mixer (unit ID 3) with a maximum rated capacity of 500 tons per hour, and one (1) 125 million Btu per hour aggregate dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 4 distillate oil, No.2 distillate oil, butane and propane as backup. Particulate emissions will be controlled by one (1) baghouse, blower rated at 85,184 acfm and exhausting at a stack, identified as SV1.
- (b) One (1) Hot Oil Heater, 2.82 million Btu per hour maximum rated capacity. The primary fuel is No. 2 oil with natural gas, propane, and butane as backup. The Hot Oil Heater exhausts at stack 2. The unit was installed in 1992.
- (c) One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing.

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) Three (3) 25,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1992.
- (b) One (1) 20,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1992.
- (c) One (1) 10,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1992.
- (d) One (1) 1,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa.,

This unit was installed in 2003.

- (e) Petroleum fuel (excluding gasoline) dispensing facilities having storage capacities less than or equal to 10,500 gallons and dispensing less than or equal to 230,000 gallons per month.
- (f) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (g) Vehicle travel on paved roads, unpaved roads, and parking lots.
- (h) Aggregate stockpiles.
- (i) Conveying, transferring, and transportation of aggregates by vehicles.
- (j) Loading and unloading of material.

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) and the Indianapolis Office of Environmental Services (OES) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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]

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)]

This permit is issued for a fixed term of five (5) years from the original date, 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.

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

(a) 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 and OES, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

(b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by OES.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

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

B.6 Severability [326 IAC 2-8-4(4)]

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

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

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

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

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

and

Indianapolis Office of Environmental Services

Air Permits
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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

- (b) The Permittee shall furnish to IDEM/OAQ, and OES within a reasonable time, any information that IDEM/OAQ, and/or OES 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 and OES copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM/OAQ and/or OES 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.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

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

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

- (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 in letter form no later than April 15 of each year to:

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

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (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, and/or OES 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, and/or OES may require 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)]

- (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) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to

emit.

- (c) A copy of the PMPs shall be submitted to IDEM/OAQ and/or OES upon request and within a reasonable time, and shall be subject to review and approval by IDEM/OAQ and/or OES. IDEM/OAQ and/or OES may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept 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 IDEM Commissioner or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the IDEM Commissioner and/or OES within a reasonable time.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM/ OAQ or OES, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

IDEM/OAQ

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

and

OES

Telephone No.: 317/327-2234

Facsimile No.: 317/327-2274

Failure to notify IDEM/OAQ or OES, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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) IDEM/OAQ and/or OES 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 or OES 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.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency 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 Branch, Office of Air Quality (Data Compliance Section)
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) 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 or OES 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 and/or OES 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 or OES at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM/OAQ or OES may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM/OAQ and/or OES 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, P.O. Box 6015
Indianapolis, IN 46206-6015

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM/OAQ and/or OES on or before the date it is due.
 - (2) If IDEM/OAQ and/or OES upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM/OAQ and/or OES 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 and OES any additional information identified as needed to process the application.

B.18 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Permits
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

Any such application should 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.19 Operational Flexibility [326 IAC 2-8-15]

- (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 emissions allowable under 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be

required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM/OAQ, OES, and 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) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM/OAQ or OES, 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 or OES, 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 317-233-0425

(ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

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 make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

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

(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 IDEM 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), fugitive particulate matter emissions shall be controlled according to the plan submitted on March 19, 1996. This plan is included in Appendix B.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

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

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

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

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

(b) The Permittee shall ensure that a written notification is sent on a form provided by the IDEM 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, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Enforcement Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 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) 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 that the inspector be accredited is federally enforceable.

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

C.10 Performance Testing [326 IAC 3-6]

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

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

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

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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 and OES 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 and/or OES not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM/OAQ and/or OES if the source submits to IDEM/OAQ and/or OES a

reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the IDEM Commissioner or the U. S. EPA.

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

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

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

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

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

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a pressure drop, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (c) The Permittee may request the IDEM/OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on February 20, 1990.
- (b) Upon direct notification by IDEM/OAQ and/or OES that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.17 Compliance Response Plan - Preparation, Implementation, Records and Reports [326 IAC 2-7-5]
[326 IAC 2-7-6]

-
- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM/OAQ and OES upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
 - (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM/OAQ and OES shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
 - (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously

submitted a request for an administrative amendment to the permit, and such request has not been denied.

- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B - Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM/OAQ within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM/OAQ that retesting in one-hundred 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 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.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location 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 or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the IDEM Commissioner or OES within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) The source 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 IAC2-1.1-1(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 Branch, Office of Air Quality (Compliance Data Section)
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Indianapolis Office of Environmental Services
Air Compliance
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

- (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 and/or OES on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report does 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.

Stratospheric Ozone Protection

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

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (1) One (1) Drum Mixer (unit ID 3) with a maximum rated capacity of 500 tons per hour, and one (1) 125 million Btu per hour aggregate dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 4 distillate oil, No.2 distillate oil, butane and propane as backup. Particulate emissions will be controlled by one (1) baghouse, blower rated at 85,184 acfm and exhausting at a stack, identified as SV1.
- (2) One (1) hot oil heater, 2.82 million Btu per hour maximum rated capacity. The primary fuel source is No. 2 oil with propane and butane backup. The heater exhausts at stack 2. The unit was installed in 1992.
- (3) One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing.

(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 Sulfur Dioxide (SO₂) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4, the input of residual No. 4 waste oil to the dryer/burner shall be limited to less than 1,261,770 gallons per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to SO₂ emissions of less than 92.7 tons per year. Sulfur content of the residual No. 4 waste oil shall not exceed one percent (1%) sulfur by weight. This limit is structured such that when including the emissions of the insignificant activities, the total source SO₂ emissions remain below one hundred (100) tons per twelve (12) consecutive month period. This renders the requirements of 326 IAC 2-7 (Part 70 Permit Program), and 326 2-2 (Prevention of Significant Deterioration), not applicable.
- (b) For purposes of determining compliance based on SO₂ emissions:
 - (1) Each gallon of No. 4 distillate oil shall be equivalent 0.51 gallons of waste oil,
 - (2) Each gallon of propane shall be equivalent to 0.001 gallons of waste oil,
 - (3) Each gallon of butane shall be equivalent to 0.001 gallons of waste oil,
 - (4) Every million cubic feet of natural gas shall be equivalent to 0.004 gallons of waste oil, and
 - (5) Each gallon of No. 2 distillate oil shall be equivalent 0.483 gallons of waste oil.

D.1.2 Sulfur Dioxide Emissions Limitations [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1-2, sulfur dioxide emissions from the combustion of distillate (No. 2, No. 4) oil shall be limited to 0.5 pounds per million Btu heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

D.1.3 Nitrogen Oxides (NO_x) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4 (FESOP), the input of natural gas to the dryer/burner shall be limited to less than 687.4 million cubic feet per 365 consecutive day period, rolled on a daily basis, which is equivalent to NO_x emissions of less than 96.2 tons per year. This limit is structured such that when including the emissions of the insignificant activities, the total

source NO_x emissions remain below one hundred (100) tons per twelve (12) consecutive month period. This renders the requirements of 326 IAC 2-7 (Part 70 Permit Program), and 326 2-2 (Prevention of Significant Deterioration), not applicable.

- (b) For purposes of determining compliance based on NO_x emissions:
- (1) Every 1000 gallons of residual No. 4 waste oil burned shall be equivalent to 0.068 million cubic feet of natural gas,
 - (2) Every 1000 gallons of No. 4 distillate oil burned shall be equivalent to 0.168 million cubic feet of natural gas,
 - (3) Every 1000 gallons of butane burned shall be equivalent to 0.075 million cubic feet of natural gas,
 - (4) Every 1000 gallons of propane burned shall be equivalent to 0.068 million cubic feet of natural gas, and
 - (5) Every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 0.086 million cubic feet of natural gas.

D.1.4 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 2-2]

Pursuant to 326 IAC 6-1-2, particulate matter emissions from the asphalt plant including the RAP lump breaker and associated conveyors, shall not exceed 0.030 grains per dry standard cubic foot. The baghouse shall be operated at all times the asphalt plant is in operation. Compliance with this rule renders 326 IAC 2-2 not applicable.

D.1.5 Asphalt Plant [326 IAC 12] [40 CFR 60.90-60.93, NSPS Subpart I] [40 CFR 60, Subpart A]

Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60 .93, Subpart I):

- (a) Particulate matter emissions from the hot mix asphalt facility shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf). Compliance with 326 IAC 6-1-2(a) will satisfy 326 IAC 12 and 40 CFR 60.92(a)(1), Subpart I, and
- (b) The visible emissions from the hot mix asphalt facility shall not exceed twenty percent (20%) opacity.
- (c) Pursuant to 40 CFR 60.7(a), the permittee shall submit to IDEM/OAQ and OES the following:
 - (1) a notification of the date of construction of RAP lump breaker and conveyors is commenced postmarked no later than 30 days after such date.
 - (2) a notification of the actual date of initial start up of RAP lump breaker and conveyors postmarked within 15 days after such date.
 - (3) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. IDEM/OAQ and OES may request additional relevant information subsequent to this notice.

- (4) a notification of the anticipated date for conducting the opacity observations required by 40 CFR 60.11(e)(1) of this part. The notification shall also include, if appropriate, a request for IDEM/OAQ and OES to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

D.1.6 Nonmetallic Mineral Processing [40CFR 60.670 through 60.676, Subpart OOO] [40 CFR 60, Subpart A] [326 IAC 12-1]

- (a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart OOO.
- (b) Pursuant to the NSPS, 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup:
 - (1) Fugitive emissions from conveyor transfer points are limited to 10% opacity.
 - (2) Fugitive emissions from the lump breaker (crusher) is limited to 15% opacity.

D.1.7 Particulate matter less than 10 microns (PM-10) [326 IAC 2-8-2] [326 IAC 2-2]

- (a) The total asphalt production for this plant shall be limited to 1,000,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This production limit is the equivalent of 94.0 tons of PM-10 source wide per year.
- (b) PM-10 emissions from combined process equipment and dryer/burner operations shall be limited to 0.1402 pounds per ton (lb/ton). Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable. Due to the potential to emit limitations, the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 rules (326 IAC 2-7) are not applicable.

D.1.8 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2, no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven (7) percent oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

D.1.9 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in hot mix asphalt production from the plant shall be limited such that no more than ninety-six (96.0) tons of VOC emissions emitted per twelve (12) consecutive months with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in (c) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (c)(6) must be applied so that the total VOC emitted does not exceed ninety-nine (99.0) tons per twelve (12) consecutive month period.
- (b) Liquid binders used in the production of cold mix asphalt shall be defined as follows:

- (1) Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
 - (2) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
 - (3) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.
 - (4) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume.
 - (5) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating.
- (c) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 96.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis with compliance determined at the end of each month.
 - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 130.5 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis with compliance determined at the end of each month.
 - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 364.8 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis with compliance determined at the end of each month.
 - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 195.8 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis with compliance determined at the end of each month.
 - (5) Other asphalt with solvent liquid binder shall not exceed 3,648.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis with compliance determined at the end of each month.
 - (6) The VOC solvent allotments in subpart (c)(1) through (c)(5) of this condition shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period rolled on a monthly basis. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than ninety-six (96.0) tons per twelve (12) consecutive month period rolled on a monthly basis, with compliance determined at the end of each month. Compliance with this limit will ensure that 326 IAC 2-7 and 326 IAC 2-2 does not apply.

D.1.10 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the drum/dryer burner and its control device; and RAP lump breaker and conveyors.

D.1.11 Used Oil Requirements [329 IAC 13]

The waste oil burned in the dryer burner shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). Pursuant to 329 IAC 13-3-2 (Used Oil Specifications), used oil burned for energy recovery that is classified as off-specification used oil fuel shall comply with the provisions of 329 IAC 13-8 (Used Oil Burners Who Burn Off-specification Used Oil For Energy Recovery), including:

- (a) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
- (b) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and
- (c) Maintaining records pursuant to 329 IAC 13-8-6 (Tracking).

The burning of mixtures of used oil and hazardous waste that is regulated under 329 IAC 3.1, is prohibited at this source.

Compliance Determination Requirements

D.1.12 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu 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 two and eight tenths (2.82) MMBtu per hour heater, 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.

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

D.1.13 Testing Requirement

Within 60 days after achieving maximum production rate at which the drum mixer and aggregate dryer will be operated, but no later than 180 days after initial start up, the Permittee shall perform a stack test approved by IDEM/OAQ and OES to demonstrate compliance with D.1.4, D.1.5, and D.1.7. Stack test shall include testing for PM and PM10 (filterable and condensable). The stack test methods shall be in accordance with the provisions of 326 IAC 3-2.1 (Source Sampling Procedures). This test was completed on September 25, 2003, therefore this test satisfies the requirement under this condition.

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

D.1.14 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the dryer burner, at least once per shift when the dryer burner 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 - Compliance Response Plan - Preparation, Implementation, Records and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

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

D.1.15 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the dryer burner when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.1.16 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan -Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down

immediately until the failed units have 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).

D.1.17 Visible Emissions Notations

- (a) Visible emission notations of the baghouse stack exhaust, conveyors, and transfer points shall be performed once per shift 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Preparation, Implementation, Records and Reports, shall be considered a violation of this permit.

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

D.1.18 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain daily records of the input of residual No. 4 waste oil to the dryer burner.
- (b) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period, the natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

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

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

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

instrumentation, and copies of all reports required by this permit.

- (c) To document compliance with Condition D.1.3, the Permittee shall maintain daily records of the input of natural gas to the dryer burner.
- (d) To document compliance with Condition D.1.6, the Permittee shall maintain records of asphalt production as follows:
 - (1) Amount of asphalt concrete produced each day,
 - (2) Amount of asphalt concrete produced in the last three hundred and sixty-five (365) days.
- (e) To document compliance with Condition D.1.8 Volatile Organic Compounds, VOC records shall document VOC usage as follows:
 - (1) Amount and type of liquid binder used in the production of cold mix asphalt each day.
 - (2) Type and VOC, solvent content by weight of the liquid binder used in the production of cold mix asphalt each day.
 - (3) Amount of VOC, solvent used in the production of cold mix asphalt each day.

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

- (f) To document compliance with Condition D.1.13, the Permittee shall maintain records of the total static pressure drop across the baghouse used in conjunction with the dryer burner, at least once per shift when the dryer burner is in operation when venting to the atmosphere.
- (g) To document compliance with Condition D.1.14, the Permittee shall maintain quarterly records of the inspections performed on all bags controlling the dryer burner when venting to the atmosphere.
- (h) To document compliance with Condition D.1.16, the Permittee shall maintain records of visible emission notations of the stack exhaust once per shift.
- (i) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.19 Reporting Requirements

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

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (1) Three (3) 25,000 gallon VOL storage tanks, maximum true vapor pressure less than 15.0 kPa. These units were installed in 1992.
- (2) One (1) 20,000 gallon VOL storage tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1992.

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

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

D.2.1 Record Keeping Requirements [40 CFR Part 60.116b] [326 IAC 12]

- (a) Pursuant to 326 IAC 12 and 40 CFR 60.116b (Subpart Kb), the Permittee shall keep readily accessible records for the life of the source showing:
 - (1) the dimension of each storage vessel, and
 - (2) an analysis showing the capacity of the storage vessel
- (b) The Permittee shall notify the Administrator when the capacity is greater than or equal to 75 m³ (cubic meters) that is used to store volatile organic liquids (VOL) for which reconstruction, modification is commenced after July 23, 1984.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
and
CITY OF INDIANAPOLIS
OFFICE of ENVIRONMENTAL SERVICES**

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

Source Name: Rieth-Riley Construction Co., Inc.
Source Address: 5165 East 96th Street, Indianapolis, IN 46240
Mailing Address: P.O. Box 477, Goshen, IN 46527-0477
FESOP No.: F097-14774-00089 and 2nd Significant Revision F097-18769-00089

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 DATA SECTION**

**P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**CITY OF INDIANAPOLIS
OFFICE of ENVIRONMENTAL SERVICES**

**DATA COMPLIANCE
2700 South Belmont Avenue
Indianapolis, Indiana 46221
Phone:317-327-2234
Fax:317-327-2274**

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

Source Name: Rieth-Riley Construction Co., Inc.
Source Address: 5165 East 96th Street, Indianapolis, IN 46240
Mailing Address: P.O. Box 477, Goshen, IN 46527-0477
FESOP No.: F097-14774-00089 and 2nd Significant Revision F097-18769-00089

This form consists of 2 pages

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9 This is an emergency as defined in 326 IAC 2-7-1(12)
☐The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
☐The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

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

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

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

Affidavit of Construction

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

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____, I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make
these representations on behalf of _____.
(Company Name)

4. I hereby certify that Rieth-Riley has constructed the following: One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing, in conformity with the requirements and intent of the construction permit application received by the Office of Environmental Services on March 2, 2004, and as permitted pursuant to **FESOP 2nd Significant Revision No. F097-18769-00089** issued on _____

Further Affiant said not.

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

Signature

Date

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 200_.

My Commission expires: _____

Signature _____

**Indiana Department of Environmental Management
Office of Air Quality
and
Indianapolis Office of Environmental Services**

**Technical Support Document (TSD) for a Significant Permit Revision to a
Federally Enforceable State Operating Permit**

Source Background and Description

Source Name:	Rieth-Riley Construction Co., Inc.
Source Location:	5165 East 96th Street, Indianapolis, IN, 46240
County:	Marion
SIC Code:	2951
Operation Permit No.:	F 097-14774-00089
Operation Permit Issuance Date:	September, 27, 2002
First Significant Permit Revision No.:	F-097-16615-00089
Second Significant Permit Revision No. :	F097-18769-00089
Permit Reviewer:	Carmen Bugay

The Indianapolis, Office of Environmental Services (OES) and Indianapolis Department of Environmental Management, Office of Air Quality (OAQ) has reviewed a revision application from Rieth-Riley Construction Co., Inc. relating to the operation of the following emission units or new equipment to be utilized in its hot mix asphalt plant:

- (a) One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing.

Insignificant Activities

- (a) One (1) 1,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 2003.

History

On March 2, 2004, Rieth-Riley Construction Co., Inc. submitted a request to the Indiana Department of Environmental Management, Office of Air Quality (IDEM/OAQ) and Indianapolis Office of Environmental Services (OES) for the addition of a RAP lump breaker and conveyors to the existing RAP part of the plant. This approval does not affect the maximum rated capacity of the plant drum mixer of 500 tons per hour.

Existing Approvals

- (a) FESOP First Significant Revision 097-16615-00089 was issued on March 6, 2003, and expiring September 27, 2007.
- (b) FESOP Renewal 097-14774-00089 was issued on September 27, 2002, and expiring on September 27, 2007.
- (c) FESOP 097-5593-00089 was issued on June 3, 1997, and expiring on June 3, 2002.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Administrator that this second significant permit revision be approved. This recommendation is based on the following facts and conditions:

A request for a permit revision to the existing FESOP for the purposes of this review was received by IDEM/OAQ and OES on March 2, 2004. Information used in this review was derived from the application and additional information submitted by the applicant received via phone or fax on March 24 and May 3, 2004. A written response to the Notice of Deficiency #1 dated March 26, 2004, was received via fax and by mail on March 29, 2004.

Emission Calculations

See Appendix A of this document (pages 1-11) for detailed emissions calculations. Three (3) pages have been changed or added to the calculations of the First Significant Permit Revision, F097-16615-00089: Page 6 (Drum Mixer), and 11 (PTE Summary) have been changed from the previous revision. Page 10 (RAP L.Breaker & Conveyors) has been added.

Unrestricted Potential Emissions

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the unrestricted potential emissions of the new units.

Process	Uncontrolled Emissions in tons/year	
	Parameters	
RAP Processing*	PM-10	total PM
	1.6	3.0

Note: *Emission factors utilized for crushed stone processing as per draft AP-42 11.19.2-2, dated 6/03 & AP-42 11.19.2-2, dated 1/95. (see Appendix A for more details).

- (a) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(w)(1) and since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Justification for Revision

The addition of the two RAP conveyors and lump breaker units requires adjustment to the emission cap limitations; and may trigger new applicable requirements for the units or processes under the emission cap. Therefore, the revision is subject to 326 IAC 2-8-11.1(f)(1), and (2), Significant Permit Revision.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2000-2002 OES and IDEM/OAQ emission data.

Pollutant	Actual Emissions by Years (tons/year)		
	2000	2001	2002
PM total	9.98	6.09	9.27
PM-10	4.29	12.37	18.75
SO ₂	19.82	13.07	18.68
VOC	0.31	0.20	0.29
CO	1.63	1.06	1.56
NO _x	6.29	4.06	5.96

Source Status

This existing source is not a major stationary source under the Prevention of Significant Deterioration (PSD), because no regulated pollutant is emitted at a rate of 250 tons per year or greater. This revision to an existing minor stationary source is not major because the emission increase is less than the PSD thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Potential to Emit of Modification After Issuance

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units after controls.

Process/facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
*RAP 2 Conveyors & Lump Breaker	3.0	1.6	--	--	--	--	--
Aggregate Dryer Burner	38.5	25.6	92.7	3.0	46.0	96.2	9.5
Aggregate Drum Mixer	44.5	44.5	0.0	0.0	0.0	0.0	11.6
Combined Fugitive Dust	49.4	22.2	0.0	0.0	0.0	0.0	0.0
Cut Back Asphalt	0.0	0.0	0.0	96.0	0.0	0.0	0.0
Insignificant Activities	0.2	0.1	6.3	0.0	0.5	2.8	0.0
Total Emissions	135.6	94.0	99.0	99.0	46.5	99.0	21.1

*The limited potential to emit for the dryer burner and the total emissions for PM and PM-10 are revised and highlighted in this table.

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	Unclassifiable
SO ₂	maintenance attainment
NO ₂	attainment
Ozone	maintenance attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as maintenance attainment for ozone.

Federal Rule Applicability

- (a) The hot mix asphalt plant is subject to the New Source Performance Standard, 40 CFR Part 60.90, Subpart I (326 IAC 12) because this source meets the definition of a hot mix asphalt plant as described in 40 CFR 60.90(a), Subpart I and construction of the facility was commenced on January 27, 1992 which is after June 11, 1973. The requirements of 40 CFR 60.90, Subpart I, limit particulate emissions from the asphalt plant to 0.040 grains per dry standard cubic foot (gr/dscf) and visible emissions to 20% opacity.

- (b) The source is subject to 40 CFR 60.670, Subpart OOO, because the source meets the definition of affected facilities. The requirements of 40 CFR 60.670 (a)(1) apply to the crushing of the RAP minerals in the RAP lump breaker.

The provisions of 40 CFR 60.672(a) does not apply because the units have no stack. However, pursuant to 40 CFR 60.672(b) and (c), fugitive emissions from transfer points are restricted to less than 10% opacity; and fugitive emissions from the lump breaker (crusher) are restricted to 15% opacity, 60 days after maximum production rate has been achieved (or 180 days after initial start-up).

- (c) The provisions of 40 CFR 60, Subpart A (326 IAC 12-1), apply to the hot mix asphalt plant (source) described in this section except when otherwise specified in 40 CFR 60, Subpart OOO.

Pursuant to 40 CFR 60.7(a), the permittee shall submit to OES and IDEM/OAQ the following:

- (1) a notification of the date of construction of RAP lump breaker and conveyors is commenced postmarked no later than 30 days after such date.
- (2) a notification of the actual date of initial start up of drum mixer and aggregate dryer postmarked within 15 days after such date.
- (3) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §§ 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. OES and IDEM/OAQ may request additional

relevant information subsequent to this notice.

- (4) A notification of the anticipated date for conducting the opacity observations required by §§ 60.11(e)(1) of this part. The notification shall also include, if appropriate, a request for OES and IDEM/OAQ to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

Pursuant to 40 CFR 60.8 (a), within 60 days after achieving maximum production rate at which the RAP lump breaker and conveyors will be operated, but no later than 180 days after initial start up, the permittee shall conduct performance tests to show compliance with 40 CFR 60, Supart OOO, and furnish to OES and IDEM/OAQ written reports of the results of such performance test.

- (d) The one (1) 1,000 gallon storage is not subject to the NSPS, 40 CFR Part. 60.110b through 60.117b, Subpart Kb (326 IAC 12) even though this storage vessel was installed in 2003, and is used to store volatile organic liquids (VOLs); however, it has a capacity less than seventy-five (75) cubic meters (m³), therefore the reporting requirements of 40 CFR 60.110b-117b, Subpart Kb, are not applicable.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 1-6-3 (Preventive Maintenance Plan)

Pursuant to 326 IAC 2-8-4(9), the source is required to maintain a Preventive Maintenance Plan (PMP) on site for the RAP lump breaker and conveyors. Pursuant to 326 IAC 2-8-3(c)(6)(FESOP Permit Application), the source is not required to submit the plan. However, the PMP maintained on site must meet the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-2 (Prevention of Significant Deterioration)

This revision to an existing minor stationary source is not major because the emission increase is less than the PSD thresholds. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

326 IAC 2-4.1 (Hazardous Air Pollutants)

The RAP lump breaker and conveyors are not subject to 326 IAC 2-4.1 since the source is not constructing a major source of hazardous air pollutants, as defined in 40 CFR 63.

326 IAC 2-6 (Emission Reporting)

New Emission Statement Rule, 326 IAC 2-6, effective March 27, 2004, states that if a source does not emit 5 tons of lead, is not located in Lake or Porter Counties, and does not qualify for a Title V permit, then it does not have to submit an annual emissions statement. All other reporting requirements are as stated in the FESOP numbered F097-14774-00089 and subsequent permit revisions.

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, source wide emissions of PM-10, SO₂, VOC and NO_x shall be limited to less than one hundred (100) tons per year such that it does not fall within any of the categories listed in 326 IAC 2-7-2(a) and that assures compliance with all applicable requirements at the time of this second significant revision to the FESOP (F097-14774-00089) issuance.

Particulate matter less than 10 microns (PM-10)

The PM-10 source wide limitation per year has been adjusted in this revision from 99.0

tons/year to 94.0 tons of PM-10. The Dryer Burner limit has been adjusted to 25.6 tons per year. Therefore, the PM-10 emission limit for the dryer burner and mixer operations, is also adjusted and limited in this revision from 0.154 pounds per ton (lb/ton) to 0.1402 lb/ton. The total asphalt production for this plant has not been changed and shall be limited to 1,000,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Based on the 0.1402 lb/ton limitation and the throughput limit of 1,000,000 tons/year, the PM-10 emissions from the dryer burner and mixer operations, are limited to 70.1 tons per year. (See calculations, Appendix A, page 6 and 11).

Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable. Due to the potential to emit limitations, the Prevention of Significant Deterioration (326 IAC 2-2) and Part 70 rule (326 IAC 2-7) are not applicable.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (Particulate Limitations)

Pursuant to this rule, particulate matter emissions from the RAP lump breaker and conveyors shall not exceed 0.03 grains per actual standard cubic foot (gr/acsf).

326 IAC 8-1-6 (New Facilities)

This rule does not apply, because potential emissions from volatile organic compounds (VOC) are less than 25 tons per year.

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

The RAP lump breaker and conveyors are not subject to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), since they are not cutback asphalt or asphalt emulsion of any paving application.

Insignificant Activities

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

The 1,000 gallons VOL tank is not subject to 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) since the source is not located in Clark, Floyd, Lake, or Porter County; and because the capacity of the stationary vessel is less than the provisions of 40 CFR 60, Subpart Kb.

326 IAC 12 (New Source Performance Standards)

This rule does not apply, because the 1,000 gallons VOL tank's capacity is not greater than or equal to 40 m³ (cubic meters) that is used to store volatile organic liquids (VOL) for which reconstruction, modification is commenced after July 23, 1984.

Compliance Requirements

There are no compliance monitoring requirements applicable to the RAP lump breaker and conveyors.

However, 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 and OES, 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 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.

Revisions to the FESOP

The following changes are being made to the FESOP. These changes are **bolded** and deletions are ~~struck through~~ for emphasis as follows:

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

The Permittee owns and operates a stationary hot drum-mix asphalt plant:

Authorized Individual: ~~Dean K. Logan~~, Asphalt Plant Specialist

County Status: **Non-attainment for ozone under the 8-hr standard;**
Attainment for all **other** criteria pollutants.

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

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

- (c) **One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing.**

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):

- (d) **One (1) 1,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 2003.**
- ~~(d)~~ (e) Petroleum fuel (excluding gasoline) dispensing facilities having storage capacities less than or equal to 10,500 gallons and dispensing less than or equal to 230,000 gallons per month; and
- ~~(e)~~ (f) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- ~~(f)~~ (g) Vehicle travel on paved roads, unpaved roads, and parking lots;
- ~~(g)~~ (h) Aggregate stockpiles;
- ~~(h)~~ (i) Conveying, transferring, and transportation of aggregates by vehicles;
- ~~(i)~~ (j) Loading and unloading of material.

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

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on March 19, 1996. The plan is included in ~~Attachment A~~ **Appendix B**.

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

C.19 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- ~~(a)~~ The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements

specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
2700 South Belmont Avenue
Indianapolis Indiana 46221-2097

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (3) **One (1) recycled asphalt pavement (RAP) lump breaker with a maximum rated capacity of 55 tons per hour, and two (2) conveyors taking RAP aggregate to the existing drum mixer for processing.**

~~D.1.4 Particulate Matter (PM) [326 IAC 6-1-2] [40 CFR 52.21] [326 IAC 2-2]~~

~~Pursuant to 326 IAC 6-1-2, particulate matter emissions from the asphalt plant **including the RAP lump breaker and associated conveyors**, shall not exceed 0.030 grains per dry standard cubic foot. The baghouse shall be operated at all times the asphalt plant is in operation. Compliance with this rule renders 326 IAC 2-2 not applicable.~~

~~D.1.5 Asphalt Plant [326 IAC 12] [40 CFR 60.90-60.93, NSPS Subpart I]~~

~~Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60.93, Subpart I):~~

- (c) Pursuant to 40 CFR 60.7(a), the permittee shall submit to OES/AQM and IDEM/OAQ the following:
- (1) a notification of the date of construction of **RAP lump breaker and conveyors** is commenced postmarked no later than 30 days after such date.
 - (2) a notification of the actual date of initial start up of **RAP lump breaker and conveyors** postmarked within 15 days after such date.

D.1.6 Nonmetallic Mineral Processing [40CFR 60.670 through 60.676, Subpart OOO] [40 CFR 60, Subpart A] [326 IAC 12-1]

- (a) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when other wise specified in 40 CFR 60, Subpart OOO.
- (b) Pursuant to the NSPS, 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO, on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup:
 - (1) Fugitive emissions from conveyor transfer points are limited to 10% opacity.
 - (2) Fugitive emissions from the lump breaker (crusher) is limited to 15% opacity.

D.1.7 through D.1.19 numbering has been revised to reflect the inclosing of the new D.1.6 section.

D.1.6 7 Particulate matter less than 10 microns (PM-10) [326 IAC 2-8-2] [326 IAC 2-2]

- (a) The total asphalt production for this plant shall be limited to 1,000,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This production limit is the equivalent of ~~99.0~~ **94.0** tons of PM-10 source wide per year.
- (b) PM-10 emissions from combined process equipment and dryer/burner operations shall be limited to ~~0.0154~~ **0.1402** pounds per ton (lb/ton). Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable. Due to the potential to emit limitations, the Prevention of Significant Deterioration (326 IAC 2-2 and 40 CFR 52.21) and Part 70 rules (326 IAC 2-7) are not applicable.

D.1. 9 10 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the drum/dryer burner and its control device; **and RAP lump breaker and conveyors.**

D.1.12 13 Testing Requirement

Within 60 days after achieving maximum production rate at which the drum mixer and aggregate dryer will be operated, but no later than 180 days after initial start up, the Permittee shall perform a stack test approved by OES and IDEM/OAQ to demonstrate compliance with D.1.4, D.1.5, and D.1.6 7. Stack test shall include testing for PM and PM10 (filterable and condensable). The stack test methods shall be in according with the provisions of 326 IAC 3-2.1 (Source Sampling Procedures). **This test was completed on September 25, 2003, therefore this test satisfies the requirement under this condition.**

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

D.2.1 Record Keeping Requirements [40 CFR Part 60.116b] [326 IAC 12]

- (b) The Permittee shall notify the Administrator when ~~the maximum true vapor pressure of any VOL stored in these vessels exceeds 27.6 kPa or 4.00 psia~~ the capacity is greater than or equal to 75 m³ (cubic meters) that is used to store volatile organic liquids (VOL) for which reconstruction, modification is commenced after July 23, 1984.

In addition, the table of contents (TOC) and forms on pages 35-46 have been revised.

Conclusion

The operation of this hot mix asphalt plant shall be subject to the conditions of the attached proposed Second (2nd) Significant Permit Revision No. F097-18769-00089.

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., Indianapolis, IN 46240
County: Marion
Operation Permit No.: F097-14774-00089
Reviewer: N. Olsen

Page 1 of 2

1. Fugitive particulate matter (dust) emissions from paved roads, unpaved roads, and parking lots shall be controlled by one or more of the following measures:
 - A. Paved roads and parking lots:
 - a. Cleaning by vacuum sweeping on an as needed basis (no less than twice per week at a minimum).
 - b. Power brooming while wet either from rain or application of water.
 - c. Dust control measures must be used during plant operating hours.
 - B. Unpaved roads and parking lots:
 - a. Paving with asphalt.
 - b. Treating with emulsified asphalt on an as needed basis.
 - c. Treating with water on an as needed basis.
 - d. Double chip and seal the road surface and maintained on an as needed basis.
2. Fugitive particulate matter (dust) emissions from aggregate stockpiles shall be controlled by one or more of the following measures.
 - A. Maintain minimum size and number of stockpiles of aggregate.
 - B. Treating around the stockpile area with emulsified asphalt on an as needed basis.
 - C. Treating around the stockpile area with water on an as needed basis.
 - D. Treating the stockpiles with water on an as needed basis.
3. Fugitive particulate matter (dust) emission from outdoor conveying of aggregates shall be controlled by the following measure:
 - A. Apply water at the feed and the intermediate points on an as needed basis.
4. Fugitive particulate matter (dust) emissions resulting from the transferring of aggregates shall be controlled by one or more of the following measures:

- A. Minimize the vehicular distance between the transfer points.
 - B. Enclose the transfer points.
 - C. Apply water on transfer points on an as needed basis.
5. Fugitive particulate matter (dust) emissions resulting from transportation of aggregate by truck, front end loader, etc. shall be controlled by one or more of the following measures:
- A. Tarping the aggregate hauling vehicles.
 - B. Maintain vehicle bodies in a condition to prevent leakage.
 - C. Spray the aggregates with water.
 - D. Maintain an 10 MPH speed limit in the yard.
6. Fugitive particulate matter (dust) emissions resulting from the loading and unloading of material shall be controlled by one or more of the following measures:
- A. Reduce free fall distance to a minimum.
 - B. Reduce the rate of discharge of the aggregate.
 - C. Spray the aggregate with water on an as needed basis.

“An As Needed Basis” means the frequency or quantity of application necessary to minimize visible particulate matter emissions.

Dryer Burner (> 100 MMBtu/hr)

Company Name: Rieth-Riley Construction Co., Inc.
 Street Address: 5105 East 90th St., IN 46240
 County: Marion County
 FESOP No.: 097-14774-00089
 Permit Revision No.: 097-16615-00089
 Reviewer: Keshav Reddy

Fuel Source	Heat Input Capacity (MMBtu/hr)	Higher Heating Value	Units	ThroughPut	Units	Sulphur %
Natural Gas	125	1000	Btu/scf	1095	MMCF/yr	
No.4 Fuel Oil	125	138000	Btu/gal	7934.78	kgal/yr	0.5
No.4 Waste Oil	125	142000	Btu/gal	7711.27	kgal/yr	1
Propane	125	94000	Btu/gal	11648.94	kgal/yr	1
Butane	125	94000	Btu/gal	11648.94	kgal/yr	1
No.2 Fuel Oil	125	138000	Btu/gal	7934.78	kgal/yr	0.5

Criteria Pollutants for Natural Gas :	Emission Factor (lb/MMCF)	Uncontrolled Potential Emissions (tons/yr)
PM	1.9	1.04
PM10	7.6	4.16
SO2	0.6	0.33
NOX	280	153.30
VOC	5.5	3.01
CO	84	45.99

Criteria Pollutants for No.4 Fuel Oil :	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
PM	7	27.77
PM10	6	23.90
SO2	75	297.55
NOX	47	186.47
VOC	0.2	0.79
CO	5	19.84

Criteria Pollutants for No.4 Waste Oil :	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
PM	61	235.19
PM10	51	196.64
SO2	147	566.78
NOX	19	73.26
VOC	0.1	0.39
CO	5	19.28

Criteria Pollutants for Propane :	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
PM	0.6	3.49
PM10	0.6	3.49
SO2	0.1	0.58
NOX	19	110.66
VOC	0.25	1.46
CO	3.2	18.64

Criteria Pollutants for Butane :	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
PM	0.6	3.49
PM10	0.6	3.49
SO2	0.09	0.52
NOX	2.1	12.23
VOC	0.26	1.51
CO	3.6	20.97

Criteria Pollutants for No.2 Fuel Oil :	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
PM	2	7.93
PM10	1	3.97
SO2	71	281.68
NOX	24	95.22
VOC	0.2	0.79
CO	5	19.84

Criteria Pollutant	Uncontrolled Potential Emissions (tons/yr)	Worst Case Fuel
PM	235.19	No.4 Waste Oil
PM10	196.64	No.4 Waste Oil
SO2	566.78	No.4 Waste Oil
NOX	186.47	No.4 Distillate Oil
VOC	3.01	Natural Gas
CO	45.99	Natural Gas

HAPs from Natural Gas Combustion	Emission Factor (lb/MMCF)	Uncontrolled Potential Emissions (tons/yr)
HAP - Organics		
Formaldehyde	7.50E-02	4.11E-02
Benzene	2.10E-03	1.15E-03
Hexane	1.80E+00	9.86E-01
Toluene	3.40E-03	1.86E-03
Dichlorobenzene	1.20E-03	6.57E-04
HAP-Metals		
Arsenic	2.00E-04	1.10E-04
Cadmium	1.10E-03	6.02E-04
Chromium	1.40E-03	7.67E-04
Lead	5.00E-04	2.74E-04
Mercury	2.60E-04	1.42E-04
Manganese	3.80E-04	2.08E-04
Nickel	2.10E-03	1.15E-03

HAP Emissions from Natural Gas (tons/yr) 1.03

HAPs from #2 Fuel Oil Combustion	Emission Factor (lb/MMBtu)	Uncontrolled Potential Emissions (tons/yr)
HAP-Metals		
Arsenic	4.00E-06	0.00E+00
Beryllium	3.00E-06	1.64E-03
Cadmium	3.00E-06	1.64E-03
Chromium	3.00E-06	1.64E-03
Lead	9.00E-06	4.93E-03
Mercury	3.00E-06	1.64E-03
Manganese	6.00E-06	3.29E-03
Nickel	3.00E-06	1.64E-03
Selenium	1.50E-05	8.21E-03
Copper	6.00E-06	3.29E-03

HAP Emissions from #2 Fuel Oil (tons/yr) 0.03

HAP-Metals	Emission Factor (lb/kgal)	Uncontrolled Potential Emissions (tons/yr)
Lead	2.2	8.48
Total HAP Emissions (tons/yr)		9.52

Uncontrolled Potential to Emit PM10 from Vehicle Travel on Unpaved Roads

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

E = $(k * 5.9^{(s/12)} * (S/30) * (W/30)^{0.7} * (w/4)^{0.5} * (365-p)/365)$ = lb particulate/vehicle mile traveled on unpaved roads
 (AP-42, 13.2.2)

k = 0.36 particle size multiplier for PM10 (constant)
 s = 4.8 silt content of road surface material (%), unspecified municipal roads
 p = 125 number of days with at least 0.01 inch of precipitation (per year)

S = mean vehicle speed (mph)
 W = mean vehicle weight (tons)
 w = number of wheels

Vehicle Type	Mean Speed (mph)	Mean Weight (tons)	# of Wheels	Trip (mi) Distance	# Trips per Hour	Total Miles (One Day)	Day/Year	E (lb/VMT)	PM10 (ton/yr)
Triaxle truck	10	21	14	0.0357	47.5	40.70	365	1.36	10.10
Front end loader	10	34.8	4	0.0535	117.28	150.59	365	1.04	28.46
Total fugitive PM10 emissions =								38.56	
Fugitive PM10 emission control =								50.00%	
Total fugitive PM10 emissions =								19.28	

Uncontrolled Potential to Emit PM from Vehicle Travel on Unpaved Roads

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

$E = (k * 5.9 * (s/12) * (S/30) * (W/30)^{0.7} * (w/4)^{0.5} * (365-p)/365)$ = lb particulate/vehicle mile traveled on unpaved roads (AP-42, 13.2.2)

k =	0.8	particle size multiplier for PM10 (constant)
s =	4.8	silt content of road surface material (%), unspecified municipal roads
p =	125	number of days with at least 0.01 inch of precipitation (per year)

S = mean vehicle speed (mph)
 W = mean vehicle weight (tons)
 w = number of wheels

Vehicle Type	Mean Speed (mph)	Mean Weight (tons)	# of Wheels	Trip (mi) Distance	# Trips per Hour	Total Miles (One Day)	Day/Year	E (lb/VMT)	PM (ton/yr)
Triaxle truck (agg)	10	21	14	0.0357	47.5	40.70	365	3.02	22.45
Front end loader	10	34.8	4	0.0535	117.28	150.59	365	2.30	63.24
Total fugitive PM emissions =								85.69	
Fugitive PM emission control =								50.00%	
Total fugitive PM emissions =								42.84	

Uncontrolled Potential to Emit PM from Handling

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

*AP-42 11.19.2-4: emission factors for crushed stone processing

Operation	Number of Points	Individual Rate (ton/hr)	Emission Factor : PM10		Uncontrolled Emissions	Controlled Emissions
			Uncontrolled (lb/ton)	Controlled (lb/ton)	PM10 (ton/yr)	PM10 (ton/yr)
Conveyor trans.	4	500	0.0014	0.000048	12.26	0.42
Screening	1	500	0.0150	0.000840	32.85	1.84
Front end loader	1	500	0.0014	0.000048	3.07	0.11
Total PM10					48.2	2.4

Per AP-42 11.19.2-6c: PM = PM10 x 2.1

Operation	Number of Points	Individual Rate (ton/hr)	Emission Factor : PM10		Uncontrolled Emissions	Controlled Emissions
			Uncontrolled (lb/ton)	Controlled (lb/ton)	PM (ton/yr)	PM (ton/yr)
Conveyor trans.	4	500	0.0029	0.000101	25.75	0.88
Screening	1	500	0.0315	0.001764	68.99	3.86
Front end loader	1	500	0.0029	0.000101	6.44	0.22
Total PM					101.2	5.0

Uncontrolled Potential to Emit PM,PM-10 from Storage Piles

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-147774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

p (no: of days of rain greater than or equal to 0.01 inches) =
f (% of wind greater than or equal to 12 mph) =

125
15

Material	Silt Content (s) (wt%)	Pile Size (acres)	Storage Capacity (tons)	Emission Factor (lb/acre/day)	PM Emissions (tons/yr)	PM-10 Emissions (tons/yr)
Sand	1.1	0.196	5000	1.27	0.36	0.12
Gravel	0.9	0.265	8600	1.04	0.29	0.10
Limestone	1.2	0.257	8600	1.39	0.39	0.14
Recycle Asphalt Pavement	0.8	0.56	11650	0.93	0.26	0.09
Slag	0.8	0.257	8600	0.93	0.26	0.09
Total Pile Size (acres) =		1.535		Total Emissions(tons/yr)	1.56	0.54

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., Indianapolis, IN 46240
County: Marion County
FESOP No.: F097-14774-00089
Permit Revision No : F097-18769-00089
Reviewer: Keshav Reddy/Amanda Hennessy
Modified by: Carmen Bugay

Unit	ID	Maximum Rated Capacity	Capacity Units	Control Device	Exhaust Flow (scfm)	Control Efficiency gr/dscf
Aggregate Drum Mixer	2/3, SV1	500	ton/hr	baghouse	58,412	0.028

(Fire 6.23,)

Unit	(lb/hr)	Controlled PTE (ton/yr)	Uncontrolled Emissions (Max Capacity, 8760 hr)	
			(lb/hr)	(ton/yr)
Aggregate Drum Mixer (PM-10)	14.01885257	61.40257426	9222.93	40396.43
(PM)	14.01885257	61.40257426	9222.93	40396.43

Allowable PM10 Emissions for FESOP Limit

ACFM	Stack Temp/F	SCFM
85,184	310	58,412

Allowable PM10 Emissions after allocation to all other emission units at the source = 44.5 tons/yr = 10.16 lbs/hr
 Production Throughput Limit to limit the PM10 emissions from the Drum Mixer:

$$(4380000 * 37.8) / 61.4 = \mathbf{2696369.036} \text{ tons of Asphalt Per Year}$$

$$224697.4197 \text{ tons of Asphalt Per Month}$$

Short Term Allowable PM-10 Limit (lbs/ton): $((25.6+44.5) \text{ tons/yr}) \times (2000 \text{ lbs/ton}) / (1000000 \text{ tons/yr}) = \mathbf{0.1402} \text{ lbs/ton of Asphalt}$

HAP Emission Calculations

Unit	Maximum Rated Capacity (tons/hr)	Emission Factor (lb/ton)	Uncontrolled Emissions (tons/yr)
Aggregate Drum Mixer	500		
Hazardous Air Pollutants (HAPs)			
Ethyl Benzene		2.90E-04	6.35E-01
Formaldehyde		3.60E-03	7.88E+00
Benzene		1.20E-03	2.63E+00
Toluene		2.00E-04	4.38E-01
Total HAP Emissions (tons/yr)			11.59

* A.P-42, Chapter 11.1

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No.: 097-16615-00089
Reviewer: Keshav Reddy

Heat Input Capacity:	125	MMBtu/hr
Heating Value of No.4 Distillate Oil:	0.138	MMBtu/gallon
Heating Value of Butane :	0.094	MMBtu/gallon
Heating Value of Natural Gas:	1,000	Btu/Cubic Foot
Heating Value of Propane:	0.094	MMBtu/gallon
Heating Value of No.4 Waste Oil :	0.140	MMBtu/gallon
Heating Value of No.2 Distillate Oil	0.138	MMBtu/gallon

"NOX" Limit	
Natural Gas Limited Firing	
(pollutant)	(tons/yr)
PM	0.5
PM-10	2.1
SO2	0.2
NOx	77.2
VOC	1.5
CO	23.2

Dryer Burner NOX Limit:	
FESOP Limit:	80 tons per year NOX
- Other Facilities:	2.76 tons per year NOX
NOX Limit:	77.2 tons per year NOX
Annual Fuel Consumption:	1095.00 MMCF/yr
Natural Gas ("NOX") Usage Limit:	551.71 MMCF/yr

POTENTIAL EMISSIONS PER FUEL						
Natural Gas:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.60	280.00	5.50	84.00
Potential Emission in tons/yr	1.0	4.2	0.3	153.3	3.0	46.0
Propane:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.60	0.60	0.10	19.00	0.25	3.20
Potential Emission in tons/yr	3.5	3.5	0.6	110.7	1.5	18.6
Butane :						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.60	0.60	0.09	21.00	0.26	3.60
Potential Emission in tons/yr	3.5	3.5	0.5	122.3	1.5	21.0
No. 4 Distillate Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	7.00	6.00	75.00	47.00	0.20	5.00
Potential Emission in tons/yr	27.8	23.8	297.6	186.5	0.8	19.8
No. 4 Waste Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	61.00	51.00	147.00	19.00	0.10	5.00
Potential Emission in tons/yr	238.6	199.4	574.9	74.3	0.4	19.6
No.2 Distillate Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.00	1.00	71.00	24.00	0.20	5.00
Potential Emission in tons/yr	7.9	4.0	281.7	95.2	0.8	19.8

Alternate Fuel Limits as Natural Gas Equivalent: NOX		
Fuel	NOX Emission Factor	Limit (MMCF/Fuel)
Natural Gas	280 lb/MMCF	1.000 MMCF/MMCF
No. 4 Waste Oil	19 lb/Kgal	0.068 MMCF/Kgal #4W
No. 4 Distillate Oil	47 lb/Kgal	0.168 MMCF/ Kgal #No.4
Butane	21 lb/Kgal	0.075 MMCF/ Kgal Butane
Propane	19 lb/Kgal	0.068 MMCF/Kgal Propane
No.2 Distillate Oil	24 lb/Kgal	0.086 MMCF/Kgal #No.2

Methodology

MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Throughput(MMBtu/yr)=Heat Input Capacity (MMBtu/hr) * 8760 hrs/yr
 Emissions (tons/yr) = Emission Factor (lb/MMCF) x Annual Fuel Consumption (MMCF/yr) / 2,000 lb/ton
 Natural Gas Usage Limit (MMCF/yr) = Dryer Burner NOX Limit (tons/yr) x Annual Fuel Consumption (MMCF/yr) / NOX Potential Emissions (tons/yr)
 Natural Gas Limited Firing (tons/yr) = Usage Limit (MMCF/yr) x Emission Factor (lb/MMCF) / 2,000 lb/ton
 Alternate Fuel Limits (MMCF Natural Gas /Fuel) = Fuel Emission Factor (lb/Kgal)/ Natural Gas Emission Factor (lb/MMCF)
 Emission Factors are from FIRE 6.23

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

Heat Input Capacity:	125	MMBtu/hr
Heating Value of No.4 Distillate Oil:	0.138	MMBtu/gallon
Heating Value of Butane :	0.094	MMBtu/gallon
Heating Value of Natural Gas:	1,000	Btu/Cubic Foot
Heating Value of Propane:	0.094	MMBtu/gallon
Heating Value of No.4 Waste Oil :	0.140	MMBtu/gallon
Heating Value of No.2 Distillate Oil:	0.138	MMBtu/gallon

"SO2" Limit	
No.4 Waste Oil Limited Firing (pollutant)	(tons/yr)
PM	30.6
PM-10	25.6
SO2	73.7
NOx	9.5
VOC	0.1
CO	2.5

Dryer Burner SO2 Limit:	
FESOP Limit:	80 tons per year SO2
- Other Facilities:	6.26 tons per year SO2
NOx Limit:	73.7 tons per year SO2
Annual Fuel Consumption:	7821.43 kgal/yr
No.4 Waste Oil ("SO2") Usage Limit:	1003.27 kgal/yr

POTENTIAL EMISSIONS PER FUEL						
Natural Gas:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.60	280.00	5.50	84.00
Potential Emission in tons/yr	1.0	4.2	0.3	153.3	3.0	46.0
Propane:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.60	0.60	0.10	19.00	0.25	3.20
Potential Emission in tons/yr	3.5	3.5	0.6	110.7	1.5	18.6
Butane :						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	0.60	0.60	0.09	21.00	0.26	3.60
Potential Emission in tons/yr	3.5	3.5	0.5	122.3	1.5	21.0
No. 4 Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	7.00	6.00	75.00	47.00	0.20	5.00
Potential Emission in tons/yr	27.8	23.8	297.6	186.5	0.8	19.8
No. 4 Waste Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	61.00	51.00	147.00	19.00	0.10	5.00
Potential Emission in tons/yr	238.6	199.4	574.9	74.3	0.4	19.6
No. 2 Distillate Oil:						
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.00	1.00	71.00	24.00	0.20	5.00
Potential Emission in tons/yr	7.9	4.0	281.7	95.2	0.8	19.8

Alternate Fuel Limits as No.4 Waste Oil Equivalent: SO2		
Fuel	SO2 Emission Factor	Limit (Kgal/Fuel)
Natural Gas	0.6 lb/MMCF	0.004 Kgal #4W/MMCF
No. 4 Waste Oil	147 lb/Kgal	1.000 Kgal #4W/Kgal #4W
No. 4 Distillate Oil	75 lb/Kgal	0.510 Kgal #4W / Kgal #No.4
Butane	0.09 lb/Kgal	0.001 Kgal #4W / Kgal Butane
Propane	0.1 lb/Kgal	0.001 Kgal #4W/ Kgal Propane
No.2 Distillate Oil	71 lb/Kgal	0.483 Kgal #4W/Kgal # No.2

Methodology

MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Throughput (MMBtu/yr) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr
 Emissions (tons/yr) = Throughput (MMBtu/yr) * Emission Factor (lb/kgal) x Heat Value Oil (gal/MMBtu)/2000lb/ton
 No.4 Waste Oil Usage Limit (kgal/yr) = Dryer Burner SO2 Limit (tons/yr) x Annual Fuel Consumption (kgal/yr) / SO2 Potential Emissions (tons/yr)
 No.4 Waste Oil Limited Firing (tons/yr) = Usage Limit (kgal/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton
 Alternate Fuel Limits (Kgal No.4 WasteOil /Fuel) = Fuel Emission Factor (lb/Kgal)/ No.4 Waste Oil Emission Factor (lb/Kgal)
 Emission Factors are from FIRE 6.23

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
FESOP No.: 097-14774-00089
Permit Revision No : 097-16615-00089
Reviewer: Keshav Reddy

Emission Unit	PM	PM-10	PTE Existing (tons/year)				
			SO2	NOX	VOC	CO	HAP'S
Aggregate Dryer Burner	259.6	217.0	297.8	327.6	0.9	23.8	0.0
Unpaved Roads	88.3	39.7	0.0	0.0	0.0	0.0	
Material Handling	86.0	41.0	0.0	0.0	0.0	0.0	
Storage Piles	0.2	0.1	0.0	0.0	0.0	0.0	
Drum Mixer	59568.0	8376.8	0.0	0.0	0.0	0.0	10.8

Emission Unit	PM	PM-10	PTE Modification (tons/year)				
			SO2	NOX	VOC	CO	HAP'S
Aggregate Dryer Burner	235.2	196.6	566.8	186.5	3.0	46.0	9.5
Unpaved Roads	85.7	38.6	0.0	0.0	0.0	0.0	0.0
Material Handling	101.2	48.2	0.0	0.0	0.0	0.0	0.0
Storage Piles	1.6	0.5	0.0	0.0	0.0	0.0	0.0
Drum Mixer	40396.4	40396.4	0.0	0.0	0.0	0.0	11.6

Emission Unit	PM	PM-10	Increase in PTE (tons/year)				
			SO2	NOX	VOC	CO	HAP'S
Aggregate Dryer Burner			268.9		2.2	22.2	9.5
Unpaved Roads							
Material Handling	15.2	7.2					
Storage Piles	1.4	0.5					
Drum Mixer		32019.6					0.8
Net Increase in PTE due to the Modifications at the Source (tons/year)	16.6	32027.3	268.9	0.0	2.2	22.2	10.3

Appendix A: RAP Lump Breaker & Conveyors
Unlimited Potential to Emit from Material Handling

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., IN 46240
County: Marion County
Operation Permit No.: F097-18769-00089
Originator: Carmen Bugay
Reviewers: Keshav Reddy/Amanda Hennessy

Emission Factors (EF) for Crushed Stone Processing

Operation*	Number of Points	Individual Rate (tons/hr)	EF: PM10 Uncontrolled (lbs/ton)	Uncontrolled PM10 (tons/yr)
Conveyor trans.! (3-05-020-06)**	1	55	0.0011	0.26
Conveyor trans.! (3-05-020-06)**	1	55	0.0011	0.26
Conveyor trans.! (3-05-020-06)**	1	55	0.0011	0.26
Conveyor trans.! (3-05-020-06)**	1	55	0.0011	0.26
Lump Breaker (PC--3-05-020-01)**	1	55	0.0024	0.58
(Totals)			0.0068	1.6

Operation*	Number of Points	Individual Rate (tons/hr)	EF: total PM Uncontrolled (lbs/ton)	Uncontrolled PM (tons/yr)
Conveyor trans.! (3-05-020-06)**	1	55	0.0029	0.70
Conveyor trans.! (3-05-020-06)**	1	55	0.0029	0.70
Conveyor trans.! (3-05-020-06)**	1	55	0.0029	0.70
Conveyor trans.! (3-05-020-06)**	1	55	0.0029	0.70
Lump Breaker (PC--3-05-020-01)#	1	55	0.0007	0.17
(Totals)			0.0123	3.0

*Emission Factors (EF) utilized per **Draft AP-42 11.19.2-2, dated 6/03; and #AP-42 11.19.2-2, dated 1/95.

!There are 4 transfer points total, 2 at the conveyors and 2 at the RAP,
which are limited to 55 tons/hr, since RAP lump breaker can only run 55 tons/hr total.

TSD

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 5165 East 96th St., Indianapolis, IN 46240
County: Marion County
FESOP No.: F097-14774-00089
2nd Permit Revision No : F097-18769-00089
Reviewer: Keshav Reddy/Amanda Hennessy
Modified by: Carmen Bugay

Uncontrolled Emissions (tons/yr)

Process	Pollutants							
	PM	PM-10	SO2	NOX	VOC	CO	HAPs	
RAP lump breaker & conveyors	3	1.6						
Dryer Burner	235.2	196.6	566.8	186.5	3.0	46.0	9.5	
Drum Mixer	40396.4	40396.4	0.0	0.0	0.0	0.0	11.6	
UnPaved Roads	85.7	38.6	0.0	0.0	0.0	0.0	0.0	
Handling	101.2	48.2	0.0	0.0	0.0	0.0	0.0	
Storage Piles	1.6	0.5	0.0	0.0	0.0	0.0	0.0	
Total Emissions (tons/yr)	40823.1	40682.0	566.8	186.5	3.0	46.0	21.1	

Limited PTE (tons/yr)

Process	Pollutants							
	PM	PM-10	SO2	NOX	VOC	CO	HAPs	
RAP lump breaker & conveyors	3	1.6						
Dryer Burner	38.5	25.6	92.7	96.2	3.0	46.0	9.5	
Drum Mixer	44.5	44.5	0.0	0.0	0.0	0.0	11.6	
UnPaved Roads	42.84	19.28	0.0	0.0	0.0	0.0	0.0	
Handling	5.0	2.4	0.0	0.0	0.0	0.0	0.0	
Storage Piles	1.56	0.54	0.0	0.0	0.0	0.0	0.0	
Cut Back Asphalt	0.0	0.0	0.0	0.0	96.0	0.0	0.0	
Insignificant Activities	0.2	0.1	6.3	2.8	0.0	0.5	0.0	
Total Emissions (tons/yr)	135.6	94.0	99.0	99.0	99.0	46.5	21.1	