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

Rieth-Riley Construction Co., Inc.
2605 South Kentucky Avenue
Indianapolis, Indiana 46241

(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.: F097-14764-00088	
Issued by: Original Signed by John B. Chavez John B. Chavez, Administrator Office of Environmental Services	Issuance Date: September 27, 2002 Expiration Date: September 27, 2007

SECTION A SOURCE SUMMARY
A.1 General Information [326 IAC 2-8-3(b)]
A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]
A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]
A.4 FESOP Applicability [326 IAC 2-8-2]
A.5 Prior Permits Superceded [326 IAC 2-1.1-9.5]

SECTION B GENERAL CONDITIONS
B.1 Permit No Defense [IC 13]
B.2 Definitions [326 IAC 2-8-1]
B.3 Permit Term [326 IAC 2-8-4(2)]
B.4 Enforceability [326 IAC 2-8-6]
B.5 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3 (h)]
B.6 Severability [326 IAC 2-8-4(4)]
B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]
B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]
B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]
B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]
B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]
B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]
B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]
B.14 Emergency Provisions [326 IAC 2-8-12]
B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]
B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
B.17 Permit Renewal [326 IAC 2-8-3(h)]
B.18 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]
B.19 Operational Flexibility [326 IAC 2-8-15]
B.20 Permit Revision Requirement [326 IAC 2-8-11.1]
B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [I13-14-2-2]
B.22 Transfer of Ownership or Operation [326 IAC 2-8-10]
B.23 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

SECTION C SOURCE OPERATION CONDITIONS

Emission Limitations and Standards [326 IAC 2-8-4(1)]
C.1 Overall Source Limit [326 IAC 2-8]
C.2 Opacity [326 IAC 5-1]
C.3 Open Burning [326 IAC 4-1][IC 13-17-9]
C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]
C.5 Fugitive Dust Emissions [326 IAC 6-4]
C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]
C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]
C.8 Stack Height [326 IAC 1-7]
C.9 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

Testing Requirements [326 IAC 2-8-4(3)]
C.10 Performance Testing [326 IAC 3-6]

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

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)]
C.13 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]
C.14 Pressure Gauge Specifications

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]
C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4]
C.18 Actions Related to Noncompliance Demonstrated by a Stack Test

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)]
C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]
C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

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

SECTION D.1 FACILITY OPERATION CONDITIONS

One (1) Drum Mixer (unit ID 2); and One (1) Hot Oil Heater

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

D.1.1 Sulfur Dioxide (SO_2) [326 IAC 2-8-4]
D.1.2 Sulfur Dioxide Emission Limitations [326 IAC 7-1.1-2]
D.1.3 Nitrogen Oxides (NO_x) [326 IAC 2-8-4]
D.1.4 Particulate Matter (PM) [326 IAC 6-1-2]
D.1.5 Asphalt Plant [326 IAC 12] [40 CFR 60.90-60.93, NSPS Subpart I]
D.1.6 Particulate Matter less than 10 microns (PM-10)
D.1.7 Miscellaneous Operations: Asphalt Paving [326 IAC 8-5-2]
D.1.8 Volatile Organic Compound (VOC) [326 IAC 2-8-4] [326 IAC 8-5-2]
D.1.9 Preventative Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]
D.1.10 Used Oil Requirements

Compliance Determination Requirements [326 IAC 3-7-4]

D.1.11 Sulfur Dioxide Emissions and Sulfur Content

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

D.1.12 Testing Requirement

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

D.1.13 Parametric Monitoring
D.1.14 Baghouse Inspections
D.1.15 Broken or Failed Bag Detection
D.1.16 Visible Emissions Notations

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

D.1.17 Record Keeping Requirements
D.1.18 Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS

Storage Tanks

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

D.2.1 Record Keeping Requirements

Certification Form
Emergency Occurrence Form
Quarterly Report Form
Quarterly Report Form
Quarterly Report Form
Quarterly Report Form
Attachment A

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 with a maximum capacity of 425 tons per hour.

Authorized Individual:	Dean K. Logan, Asphalt Plant Specialist
Source Address:	2605 South Kentucky Avenue, Indianapolis, Indiana 46241
Mailing Address:	P.O. Box 477, Goshen, Indiana 46527-0477
SIC Code:	2951
Source Location Status:	Marion
County Status:	Attainment for all 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) Batch Mixer (unit ID 2), 400 tons per hour maximum rated capacity, and one (1) 124 million Btu per hour Aggregate Dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 2 oil, No. 4 oil, and propane as backup. Particulate emissions are controlled by one (1) baghouse, blower rated at 70,000 acfm and exhausting at stack .1 The unit was installed in 1997.

(b) One (1) Hot Oil Heater, 2.8 million Btu per hour maximum rated capacity. The primary fuel source 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 1980.

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) One (1) 25,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1983.

(b) One (1) 20,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1996.

(c) One (1) 15,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1983.

(d) Three (3) 10,000 gallon VOL Storage Tank. One (1) tank was installed in 1996. Two (2) were installed in 1983.

(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 City of 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) deleted

by 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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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 Commissioner or OES makes a request for records to the Permittee, the Permittee shall furnish the records to the 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

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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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 and/or OES, 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

City of 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, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (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 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. The plan is included as Attachment A.

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 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

City of Indianapolis
Office of Environmental Services
Air Quality Management 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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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 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, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

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

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented 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 (±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 (±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 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 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.

C.20 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 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.21 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

City of Indianapolis
Office of Environmental Services
Air Quality Management Section
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.22 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) Batch Mixer (unit ID 2), 400 tons per hour maximum rated capacity, and one (1) 124 million Btu per hour Aggregate Dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 2 oil, No. 4 oil, and propane as backup. Particulate emissions are controlled by one (1) baghouse, blower rated at 70,000 acfm and exhausting at stack .1 The unit was installed in 1997.
(2) One (1) Hot Oil Heater, 2.8 million Btu per hour maximum rated capacity. The primary fuel source 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 1980.
(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 (SO_2) [326 IAC 2-8-4] [326 IAC 2-2] [40 CFR 52.21]

(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 than1,736,554 gallons per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to SO_2 emissions of less than 92.9 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 SO_2 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), 326 2-2 (Prevention of Significant Deterioration), and 40 CFR 52.21 not applicable.

(b) For purposes of determining compliance based on SO_2 emissions:
(1) Each gallon of No. 2 distillate oil shall be equivalent to: 0.7336 gallons of waste oil,

(2) Each gallon of No. 4 distillate oil shall be equivalent 0.7009 gallons of waste oil,

(3) Each gallon of propane or butane shall be equivalent to 0.0009 gallons of waste oil, and

(4) Every million cubic feet of natural gas shall be equivalent to 5.607 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[[40 CFR 52.21]

(a) Pursuant to 326 IAC 2-8-4 (FESOP), the input of natural gas to the dryer/burner shall be limited to less than 350.18 million cubic feet per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to NO_x emissions of less than 96.3 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), 326 2-2 (Prevention of Significant Deterioration), and 40 CFR 52.21 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 0.029 million cubic feet of natural gas,

(2) Every 1000 gallons of No. 4 distillate oil burned shall be equivalent to 0.036 million cubic feet of natural gas,

(3) Every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 0.036 million cubic feet of natural gas,

(4) Every 1000 gallons of butane burned shall be equivalent to 0.038 million cubic feet of natural gas, and

(5) Every 1000 gallons of propane burned shall be equivalent to 0.034 million cubic feet of natural gas.

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

Pursuant to 326 IAC 6-1-2, particulate matter emissions from the asphalt plant shall not exceed 0.030 grains per dry standard cubic foot. In order to meet this requirement, 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):

(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.

D.1.6 Particulate matter less than 10 microns (PM-10) [326 IAC 2-8-2] [326 IAC 2-2] [40 CFR 52.21]

(a) The total asphalt production for this plant shall be limited to 1,400,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This production limit is the equivalent of 97.6 tons of PM-10 source wide per year.

(b) PM-10 emissions from combined process equipment and dryer/burner operations shall be limited to 0.099 pounds per ton (lb/ton). 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.1.7 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.1.8 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-2] [40CFR 52.21]

(a) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than ninety-eight and five tenths (98.5) tons of VOC emissions emitted per twelve (12) consecutive months. 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 98.5 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(3) Cutback asphalt slow cure liquid binder usage shall not exceed 374.3 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(4) Emulsified asphalt with solvent liquid binder usage shall not exceed 200.9 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(5) Other asphalt with solvent liquid binder shall not exceed 3743.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(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-eight and five tenths (98.5) tons per twelve (12) consecutive month period rolled on a monthly basis. Compliance with this limit will ensure that 326 IAC 2-7and 326 IAC 2-2 does not apply.

D.1.9 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.

D.1.10 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.1.11 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 (2.8) 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.1.12 Testing Requirement

Within 720 days of the issuance of this renewal, the Permittee shall perform a stack test approved by OES/AQM and IDEM/OAQ to demonstrate compliance with D.1.4 and D.1.6. Stack test shall include testing for PM and PM10 (filterable and condensible). The stack test methods shall be in according with the provisions of 326 IAC 3-2.1 (Source Sampling Procedures).

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

D.1.13 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.1.14 Baghouse Inspections

An inspection shall be performed each calender 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.1.15 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.1.16 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 Response 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.1.17 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;

(1) 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.1.18 Reporting Requirements

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).

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities
(1) One (1) 20,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1996.
(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 Recordkeeping Requirements [326 IAC 12] [40 CFR Part 60.116b]

(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 maximum true vapor pressure of any VOL stored in these vessels exceeds 27.6 kPa or 4.00 psia.

(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: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Mailing Address: P.O. Box 477, Goshen, IN 46527-0477
FESOP No.: 097-14764-00088

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

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 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: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Mailing Address: P.O. Box 477, Goshen, IN 46527-0477
FESOP No.: 097-14764-00088 (2) One (1) 20,000 gallon VOL storage tank, maximum true vapor pressure less than 15.0 kPa.

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

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 **Page 2 of 2**

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

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

A certification is not required for this report.

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

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

Source Background and Description

Source Name:	**Rieth-Riley Construction Co., Inc.**
Source Location:	**2605 South Kentucky Avenue**
County:	**Marion**
SIC Code:	**2951**
Operation Permit No.:	**F097-14764-00088**
Permit Reviewer:	**NJO**

On August 23, 2002, the Office of Environmental Services (OES) had a notice published in the Indianapolis Star Newspaper, Indianapolis, Indiana, stating that Rieth-Riley Construction Co., Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a hot mix asphalt plant. The notice also stated that OES and Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The following changes, to the draft FESOP Renewal Permit, will be made. The TSD will remain as it originally appeared when published. These changes have no effect on the limited potential to emit (PTE) for this source. OES and OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Upon further review, the OES has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table Of Contents has been modified to reflect these changes, if necessary.

1. Condition A.2 Emission Units and Pollution Control Equipment Summary. The million Btu per hour (mmBtu/hr) rating for the Aggregate Dryer was incorrectly described as 133 mmBtu/hr when it is actually 124 mmBtu/hr. This change does not affect the limited potential to emit. The condition has been updated to include the correction:

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) Batch Mixer (unit ID 2), 400 tons per hour maximum rated capacity, and one (1) ~~133~~ **124** million Btu per hour Aggregate Dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 2 oil, No. 4 oil, and propane as backup. Particulate emissions are controlled by one (1) baghouse, blower rated at 70,000 acfm and exhausting at stack .1 The unit was installed in 1997.

(b) One (1) Hot Oil Heater, 2.8 million Btu per hour maximum rated capacity. The primary fuel source 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 1980.

2. Section D.1 Facility Description. The million Btu per hour (mmBtu/hr) rating for the Aggregate Dryer was incorrectly described as 133 mmBtu/hr when it is actually 124 mmBtu/hr. This change does not affect the limited potential to emit. The emission unit description in Section D.1 has been updated to include the correction:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:
(1) One (1) Batch Mixer (unit ID 2), 400 tons per hour maximum rated capacity, and one (1) ~~133~~ **124** million Btu per hour Aggregate Dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 2 oil, No. 4 oil, and propane as backup. Particulate emissions are controlled by one (1) baghouse, blower rated at 70,000 acfm and exhausting at stack .1 The unit was installed in 1997.
(2) One (1) Hot Oil Heater, 2.8 million Btu per hour maximum rated capacity. The primary fuel source 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 1980.
(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

3. The Unrestricted Potential Emissions table has been revised as follows in order to reflect the decrease in rating for the Aggregate Dryer from 133 mmBtu/hr to 124 mmBtu/hr. This change does not affect the limited potential to emit.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	~~56,441~~ **56,423**
PM-10	~~8,153~~ **8,138**
SO_2	~~297.8~~ **278.1**
VOC	>250*
CO	~~23.8~~ **22.2**
NO_x	~~323.1~~ **301.4**

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

4. Condition D.1.6 Particulate matter less than 10 microns. The PM-10 pounds per ton (lb/ton) short-term limit in Condition D.1.6 was incorrectly typed, excluding a zero (0) that was to be placed after the decimal point. The condition has been updated to include the correction:

D.1.6 Particulate matter less than 10 microns (PM-10) [326 IAC 2-8-2] [326 IAC 2-2] [40 CFR 52.21]

(a) The total asphalt production for this plant shall be limited to 1,400,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This production limit is the equivalent of 97.6 tons of PM-10 source wide per year.

(b) PM-10 emissions from combined process equipment and dryer/burner operations shall be limited to ~~0.99~~ **0.099** pounds per ton (lb/ton). 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.

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

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

Source Background and Description

Source Name:	Rieth-Riley Construction Co., Inc.
Source Location:	2605 South Kentucky Ave., Indianapolis, IN, 46241
County:	Marion
SIC Code:	2951
Operation Permit No.:	097-14764-00088
Permit Reviewer:	N. Olsen

The Office of Air Quality (OAQ) and the City of Indianapolis Office of Environmental Services (OES) have reviewed a FESOP renewal application from Rieth-Riley Construction Co., Inc. relating to the operation of a hot mix batch asphalt plant. Rieth-Riley was issued FESOP 097-5589-00088 on June 3, 1997.

Permitted Emission Units and Pollution Control Equipment

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

(1) Facility No. 0088-01 (issued on June 3, 1997)

(a) One (1) Batch Mixer (unit ID 2), 400 tons per hour maximum rated capacity, and one (1) 133 million Btu per hour Aggregate Dryer. The primary fuel source is No. 4 waste oil with natural gas, No. 2 oil, No. 4 oil, and propane as backup. Particulate emissions are controlled by one (1) baghouse, blower rated at 70,000 acfm and exhausting at stack 1. The unit was installed in 1997.

(b) One (1) Hot Oil Heater, 2.8 million Btu per hour maximum rated capacity. The primary fuel source 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 1980.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

(1) One (1) 25,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1983.

(2) One (1) 20,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1996.
(3) One (1) 15,000 gallon VOL Storage Tank, maximum true vapor pressure less than 15.0 kPa. This unit was installed in 1983.
(4) Three (3) 10,000 gallon VOL Storage Tank. One (1) tank was installed in 1996. Two (2) were installed in 1983.
(5) 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;
(6) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids;
(7) Vehicle travel on paved roads, unpaved roads, and parking lots;
(8) Aggregate stockpiles;
(9) Conveying, transferring, and transportation of aggregates by vehicles;
(10) Loading and unloading of material.

Existing Approvals

(a) FESOP 097-5589-00088, issued on June 3, 1997; and expiring on June 3, 2002.

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

(1) Condition D.1.2: Sulfur Dioxide (SO_2)

Pursuant to 326 IAC 2-8-4 (FESOP), the total usage of combined No. 4 fuel oil and No. 4 waste oil in the Dryer Burner shall be limited during the first year to the following monthly levels:

MONTH	USAGE LIMIT (GALLONS PER MONTH)
JANUARY	75,000
FEBRUARY	45,500
MARCH	80,000
APRIL	80,000
MAY	200,000
JUNE	204,700
JULY	204,700
AUGUST	204,700
SEPTEMBER	204,700
OCTOBER	204,542
NOVEMBER	200,000
DECEMBER	140,000

Reason not incorporated: Limits in this condition apply only to the first year of operation after F097-5589-00088 was issued. These limits are no longer applicable.

(2) Condition D.1.3: Nitrogen Oxides (NO_x)

Pursuant to 326 IAC 2-8-4 (FESOP),

(a) Pursuant to this rule, the total combustion of natural gas in the Dryer Burner shall be limited to 359 million cubic feet per 12 month period, rolled on a monthly basis. During the first twelve month period the production limits are set as follows:

MONTH	USAGE LIMIT (MM CU FT/ MONTH)
JANUARY	14.63
FEBRUARY	8.90
MARCH	15.65
APRIL	15.65
MAY	39.05
JUNE	39.75
JULY	39.75
AUGUST	39.75
SEPTEMBER	39.75
OCTOBER	39.75
NOVEMBER	39.05
DECEMBER	27.32

Reason not incorporated: Limits in this condition apply only to the first year of operation after F097-5589-00088 was issued. These limits are no longer applicable.

Emission Calculations

Emission calculations for this source can be found in Appendix A, pages 1 through 10 of 10.

Recommendation

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

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

An administratively complete FESOP Renewal application for the purposes of this review was received on August 13, 2001. The source requested that the following changes be made to the original FESOP:

(1) The addition of propane and No. 2 fuel oil firing to the aggregate dryer;
(2) The addition of a short term PM-10 (lb/hr) limit based on the production limit.

The addition of propane and No. 2 oil will not increase the potential to emit for PM, PM-10, SO_2, NO_x, CO, or HAP above what is currently permitted. The addition of propane will increase the potential to emit VOC from eight tenths (0.8) of a ton per year to one and five tenths (1.5) tons per year, however the increase is de minimus and does not result in a potential to emit greater than the thresholds in 326 IAC 2-1.1-3(e), 326 IAC 2-2, or 326 IAC 2-3. Therefore, the addition of these fuels is considered an administrative amendment under 326 IAC 2-8-10. These requests have been reviewed and incorporated into this FESOP Renewal.

Unrestricted Potential Emissions

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

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	56,441
PM-10	8,153
SO_2	297.8
VOC	>250*
CO	23.8
NO_x	323.1

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

*The VOC potential emissions include the maximum potential use of cold mix cutback asphalt.

HAP's	Unrestricted Potential Emissions (tons/yr)
Single HAP	10.2
Combined HAPs	10.2

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM-10, SO_2, VOC, and NO_x are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2-1(p)(2) 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.

Potential to Emit After Issuance

The source, issued a FESOP on June 3, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F097-5589-00088**;** issued on June 3, 1997).

	Potential to Emit After Issuance (tons/year)						
Process/emission unit	PM	PM-10	SO_2	VOC	CO	NO_X	HAPs
Aggregate Dryer Mixer	21.6	21.6	0.0	0.0	0.0	0.0	0.0
Aggregate Dryer Burner	56.9	47.5	92.9	0.4	10.3	96.3	4.1
Combined Fugitive Dust	62.9	28.4	0.0	0.0	0.0	0.0	0.0
Cutback Asphalt	0.0	0.0	0.0	98.5	0.0	0.0	0.0
Insignificant Activities	0.2	0.1	6.1	0.1	0.5	2.7	0.0
Total PTE After Issuance	**141.4**	**97.6**	**99.0**	**99.0**	**10.8**	**99.0**	**4.1**

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO_2	maintenance
NO_2	attainment
Ozone	maintenance
CO	attainment
Lead	unclassifiable

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 on the facility was commenced on August 10, 1983 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 one (1) 20,000 gallon storage vessel is subject to the NSPS, 40 CFR Part 60.110b through 60.117b, Subpart Kb (326 IAC 12) because this storage vessel was installed in April 1996 which is after July 23, 1984, has a capacity greater than forty (40) cubic meters (m^3), and is used to store volatile organic liquids (VOL's). The requirements of 40 CFR 60.110b-117b, Subpart Kb, are record keeping and reporting as described under Compliance Monitoring. The one (1) 25,000 gallon storage vessel and one (1) 15,000 gallon storage vessels are not subject to NSPS, 40 CFR Part 60.110b through 60.117b, Subpart Kb (326 IAC 12) because these storage vessels were installed in August 1983 and therefore predate this rule.

(c) 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 1-5-2 (Emergency Reduction Plan)

The source has submitted an Emergency Reduction Plan (ERP) on February 20, 1990. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plan).

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

Pursuant to 326 IAC 2-8-4(9), the source is required to maintain a Preventative Maintenance Plan (PMP) on site for the drum/dryer burner and its control device. 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). The previous FESOP issued to this source, F097-5589-00088, had the requirement included in Condition B.13 and is being carried over to this renewal.

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

The source commenced construction on August 10, 1983 (after August 7, 1977), and therefore does not predate this rule. The unrestricted potential to emit of this source for PM, PM-10, VOC, SO_2, and NO_x meet the definition of "major PSD source" pursuant to 326 IAC 2-2-1(p)(2). However, potential to emit of PM, PM-10, VOC, SO_2, and NO_x is being enforceably restricted to less than one hundred (100) tons per year such that 326 IAC 2-7 does not apply. In addition, PM is being enforceably restricted to less than two hundred and fifty (250) tons per year pursuant to 326 IAC 6-1-2. Therefore, potential to emit of PM, PM-10, VOC, SO_2, and NO_x is being enforceably restricted to less than major thresholds such that 326 IAC 2-2 does not apply.

326 IAC 2-4.1 (Hazardous Air Pollutants)

The source is not subject to 326 IAC 2-4.1 because the plant was constructed on August 10, 1983 which is prior to July 27, 1997 and the source is not a major source of hazardous air pollutants, as defined in 40 CFR 63.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because the source is located in Marion County and it has the potential to emit more than ten (10) tons per year of NO_X and VOCs. Pursuant to this rule, the owner/operator of the source must submit an emission statement for the source. The statement must be received by April 15 of each year, in accordance with the compliance schedule specified in 326 IAC 2-6 and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8).

326 IAC 2-8-4 (FESOP)

(a) Pursuant to this rule, source wide emissions of PM-10, VOC, SO_2, 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 assure compliance with all applicable requirements at the time of FESOP issuance (See Emissions Calculations, Appendix A). The following limits shall apply to assure compliance with this rule:

(1) Sulfur Dioxide (SO_2)

The input of No. 4 waste oil to the dryer/burner shall be limited to less than1,736,554 gallons per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to SO_2 emissions of less than 92.9 tons per year. Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable.

These limits are structured such that when including emissions from insignificant activities, the total source SO_2 emissions remain below one hundred (100) tons per twelve (12) consecutive month period. The source wide unrestricted potential to emit of an individual HAP or combination of HAPs does not exceed the thresholds listed in 326 IAC 2-7-1(22), thus the source does not have major potential to emit for HAPs. Limiting source wide emissions of SO_2 will further limit the potential to emit of an individual HAP or combination of HAPs. This renders the requirements of 326 IAC 2-7 (Part 70 Permit Program) not applicable.

The addition of No. 2 oil and propane to the list of permitted fuels does not increase the potential to emit SO_2 because No. 4 waste oil is the worst case fuel for this pollutant (see calculations, Appendix A page 8 of 10). No. 4 waste oil was permitted in the original FESOP, therefore the fuel addition is considered an administrative amendment under 326 IAC 2-8-10.

For purposes of determining compliance based on SO_2 emissions (See calculations, Appendix A):

(A) Each gallon of No. 2 distillate oil shall be equivalent to 0.7336 gallons of waste oil,

(B) Each gallon of No. 4 distillate oil shall be equivalent to 0.7009 gallons of waste oil,

(C) Each gallon of propane or butane shall be equivalent to 0.0009 gallons of waste oil, and

(D) Every million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil.

(2) Nitrogen Oxides (NO_x) Emissions Limitations

The input of natural gas to the dryer/burner shall be limited to less than 350.18 million cubic feet per twelve (12) consecutive month period with compliance determined at the end of each month, which is equivalent to NO_x emissions of less than 96.3 tons per year. Compliance with the potential to emit limitation makes 326 IAC 2-7 (Part 70 Permit Program) not applicable. Due to the potential to emit limitation, the provisions of Prevention of Significant Deterioration (40 CFR 52.21) rules are not applicable.

These limits are structured such that when including emissions from insignificant activities, the total source NO_x emissions remain below one hundred (100) tons per twelve (12) consecutive month period. The source wide unrestricted potential to emit of an individual HAP or combination of HAPs does not exceed the thresholds listed in 326 IAC 2-7-1(22), thus the source does not have major potential to emit for HAPs. Limiting source wide emissions of NO_x will further limit the potential to emit of an individual HAP or combination of HAPs. This renders the requirements of 326 IAC 2-7 (Part 70 Permit Program) not applicable.

The addition of No. 2 oil and propane to the list of permitted fuels does not increase the potential to emit NO_x because natural gas is the worst case fuel for this pollutant (see calculations, Appendix A page 9 of 10). Natural gas was permitted in the original FESOP, therefore the fuel addition is considered an administrative amendment under 326 IAC 2-8-10.

For purposes of determining compliance based on NO_x emissions (See calculations, Appendix A). :

(A) Every 1000 gallons of residual No. 4 waste oil burned shall be equivalent to 0.029 million cubic feet of natural gas,

(B) Every 1000 gallons of No. 4 distillate oil burned shall be equivalent to 0.036 million cubic feet of natural gas,

(C) Every 1000 gallons of No. 2 distillate oil burned shall be equivalent to 0.036 million cubic feet of natural gas,

(D) Every 1000 gallons of butane burned shall be equivalent to 0.038 million cubic feet of natural gas, and

(E) Every 1000 gallons of propane burned shall be equivalent to 0.034 million cubic feet of natural gas.

(3) Particulate matter less than 10 microns (PM-10)

(A) The total asphalt production for this plant shall be limited to 1,400,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. This production limit is the equivalent of 97.6 tons of PM-10 source wide per year.

(B) PM-10 emissions from combined process equipment and dryer/burner operations shall be limited to 0.99 pounds per ton (lb/ton) (See calculations, Appendix A). 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.

(4) Volatile Organic Compounds
Pursuant to 326 IAC 2-8-4, the liquid binder used in cold mix asphalt production shall be limited as follows:

(A) Cutback asphalt rapid cure liquid binder usage shall not exceed ninety-eight and five tenths (98.5) tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(B) Cutback asphalt medium cure liquid binder usage shall not exceed 134.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(C) Cutback asphalt slow cure liquid binder usage shall not exceed 374.3 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(D) Emulsified asphalt with solvent liquid binder usage shall not exceed 200.9 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(E) Other asphalt with solvent liquid binder shall not exceed 3,743.0 tons of VOC solvent per twelve (12) consecutive month period rolled on a monthly basis.

(F) The VOC solvent allotments in (A) through (E) above 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-eight and five tenths (98.5) tons per twelve consecutive month period rolled on a monthly basis.

(b) The source wide unrestricted potential to emit of an individual HAP or combination of HAPs does not exceed the thresholds listed in 326 IAC 2-7-1(22), thus the source does not have major potential to emit for HAPs. Limiting source wide emissions of PM-10, VOC, SO_2, and NO_x will further limit the potential to emit of an individual HAP or combination of HAPs. Therefore, the source will not fall within any the categories listed in 326 IAC 2-7-2(a) and

will comply with all applicable requirements at the time of the FESOP issuance (See Emissions Calculations, Appendix A).

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), the source is subject to this rule because the source is located in Marion County, except for the area of Washington Township east of Fall Creek and the area of Franklin Township south of Thompson Road and east of Five Points Road. Thus, opacity shall meet the following, unless otherwise stated in this permit:

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

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

326 IAC 6-4-1 (Fugitive Dust Emissions)

Pursuant to 326 IAC 6-4-1, the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

Pursuant to this rule, a fugitive dust control plan was submitted by the source on March 19, 1996. The plan was reviewed and approved. The source shall comply with all dust abatement measures contained therein.

State Rule Applicability - Individual Facilities

Dryer Burner

326 IAC 6-1-2 (Particulate Limitations)

Pursuant to this rule, particulate matter emissions from the dryer burner shall not exceed 0.03 grains per dry standard cubic foot (gr/dcsf). The baghouse blower shall be in operation at all times the dryer burner is in operation, in order to comply with this limit.

Pursuant to the New Source Performance Standards, 326 IAC 12 (40 CFR 60.90 to 60 .93, Subpart I), particulate matter emissions from the asphalt plant shall not exceed 0.040 grains per dry standard cubic foot (gr/dscf) and that visible emissions from the asphalt plant shall not exceed 20% opacity. Compliance with these limits will also satisfy 326 IAC 5-1. Compliance with 326 IAC 6-1-2 satisfies the requirement for 40 CFR 60.90 to 60.93 Subpart I grain loading limitation.

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

Pursuant to this rule, 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 (the equivalent of 0.48% sulfur content). The company has accepted a voluntary limit of 1% sulphur by weight on No. 4 waste oil.

Miscellaneous Operations

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

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.

Insignificant Activities

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

The source is not subject to 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) because source is not located in Clark, Floyd, Lake, or Porter County.

Testing Requirements

326 IAC 2-8-4(3) (Performance Testing)

Within 720 days of the issuance of this renewal, the permittee shall perform a stack test approved by OES/AQM and IDEM/OAQ to demonstrate compliance with 326 IAC 6-1-2, 326 IAC 2-2-2, and 326 IAC 2-8-4. Stack tests shall include testing for PM and PM-10 (filterable and condensible). The stack test methods shall be in according with the provisions of 326 3-2-1 (Source Sampling Procedures).

In order to demonstrate compliance with 326 IAC 2-8-4, PM-10 emissions from combined process equipment and dryer/burner operations are limited to 15.77 pounds per hour (lb/hr). The total asphalt production for this plant is limited to 1,400,000 tons per twelve (12) consecutive month period. This production limit is the equivalent of 97.6 tons of PM-10 source wide per year.

Previous stack tests to comply with this requirement were conducted on PM on August 11, 1998. PM emissions (particulate) were found to be 0.0202 gr/dscf. In order to demonstrate compliance with 326 IAC 6-1-2, allowable PM emissions are limited to less than 0 .030 gr/dscf.

Compliance Requirements

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

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also 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.

All compliance requirements from previous approvals were incorporated into this FESOP. The compliance monitoring requirements applicable to this source are as follows:

(1) The baghouse has applicable compliance monitoring conditions as specified below:

(a) Visible emissions notations of the exhaust stack from the baghouse, conveyors, and transfer points shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. 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. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

(b) The Permittee shall record the total static pressure drop across the baghouse controlling the dryer burner, at least once per shift when the dryer burner is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

(c) An inspection shall be performed each calender 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) In the event that bag failure has been detected:

(1) 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.

(2) 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).

These monitoring conditions are necessary because the baghouse controlling the aggregate drying and mixing process must operate properly to ensure compliance with 40 CFR 60.90, Subpart I, 326 IAC 2-8 (FESOP), and 326 IAC 6-1-2, and avoid becoming a major PSD source under 326 IAC 2-2.

Conclusion

The operation of this hot drum-mix asphalt plant shall be subject to the conditions of the attached proposed FESOP No.: F097-14764-00088.

APPENDIX A

ATTACHMENT "A"

ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

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 (monthly at a minimum).
        b. Power brooming while wet either from rain or application of water.

    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 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.

Unlimited and Limited Potential to Emit from Combustion

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: F097-14764-00088
Reviewer: N. Olsen

UNLIMITED POTENTIAL TO EMIT

Source	Fuel Source	Consumptio Units	SCC ID Code	mmbtu/hr Rating	Annual Hrs Operation	Annual Fue Consumptio	PM10 (lb/hr)	PM10 (Ton/Yr)	PM (lb/hr)	PM (Ton/Yr)	SO2 (lb/hr)	SO2 (Ton/Yr)	NOX (lb/hr)	NOX (Ton/Yr)	VOC (lb/hr)	VOC (Ton/Yr)	CO (lb/hr)	CO (Ton/Yr)
Aggreg. Dr	Nat gas	MMCF	10200601	133.0	8760.0	1165.1	0.40	1.75	0.40	1.75	0.08	0.35	73.15	320.40	0.19	0.82	5.32	23.30
Aggreg. Dr	No. 4 oil	1000 gal	10200504	133.0	8760.0	8322.0	5.72	25.05	6.65	29.13	66.50	291.27	19.00	83.22	0.19	0.83	4.75	20.81
Aggreg. Dr	No 4 waste	1000 gal	10500113	133.0	8760.0	8322.0	48.45	212.21	57.95	253.82	66.50	291.27	15.20	66.58	0.10	0.42	2.00	8.74
Hot oil hea	No. 2 oil	1000 gal	10200501	2.80	8760.0	175.2	0.02	0.09	0.04	0.18	1.40	6.13	0.40	1.75	0.00	0.02	0.10	0.44
Hot oil hea	Nat gas	MMCF	10200601	2.80	8760.0	24.5	0.01	0.04	0.01	0.04	0.00	0.01	0.28	1.23	0.01	0.06	0.06	0.25
Hot oil hea	Propane	1000 gal	10201002	2.80	8760.0	260.9	0.01	0.03	0.02	0.08	0.00	0.01	0.57	2.48	0.01	0.03	0.10	0.42
Hot oil hea	Butane	1000 gal	10201001	2.80	8760.0	260.9	0.01	0.04	0.02	0.08	0.00	0.01	0.63	2.74	0.01	0.03	0.11	0.47

NOTE: Assume that the heating value of natural gas is 1000 Btu / Cubic Foot, distillate oil is 0.14 MMBtu / Gallon, residual oil is 0.15 MMBtu / Gallon, LPG is 0.094 MMBtu / Gallon.

	LPG	
	10201001	10201002
	Butane	Propane
UNITS	Lb/ 1000 Gallons	
PM	0.6	0.6
PM-10	0.28	0.26
SO2	0.09	0.1
NOx	21	19
VOC	0.26	0.25
CO	3.6	3.2
SOURCE	FIRE 5.0	

	Residual Oil		
	Rated Capacity, MMBtu/hr		
	No. 5	No. 6, 10-100	No. 6, >100
UNITS	Lb/ 1000 Gallons		
PM	10	3.22	3.22
PM-10	8.6	2.7692	2.7692
SO2	158	157	158
NOx	55	55	55
VOC	0.28	0.28	0.28
CO	5	5	5
SOURCE	FIRE 5.0		
Wt% Sulfur	NA	0	0

	Distillate Oil		
	Rated Capacity, MMBtu/hr		
	No. 1 & 2	No. 4	Waste # 4*
UNITS	Lb/ 1000 Gallons		
PM	2	7	61
PM-10	1	6.02	51
SO2	Refer to note below.		
NOx	20	20	16
VOC	0.2	0.2	0.1
CO	5	5	2.1
SOURCE	FIRE 5.0		
Wt%Sulfur=		Wt. % Ash	1
* AP-42 1.11-4		Wt%Sulfur=	0.486

	Natural Gas Emission Factors		
	Rated Capacity, MMBtu/hr		
	< 10 *	10-100	> 100
UNITS	Lb/ MMCF		
PM	3	6.2	3
PM-10	3	3	3
SO2	0.6	0.6	0.6
NOx	100	140	550
VOC	5.3	2.8	1.4
CO	20	35	40
SOURCE	FIRE 5.0		

* 1-05-001-06 Natural gas space heater

SAMPLE CALCULATION	MMCF / YR	X	LB / MMCF	X	TONS / LB	=	TONS / YR

Note: Potential to Emit SO2 is greater than 25 tpy or 10 lb/hr. Therefore, facility is limited to 0.5 lb SO2 / MMBtu for distillate oil combustion (No. 2 oil, No. 4 oil, and No. 4 waste oil).

LIMITED POTENTIAL TO EMIT

Source	Fuel Source	Consumptio Units	SCC ID Code	mmbtu/hr Rating	Limited Hrs Operation	Annual Fue Consumptio	PM10 (lb/hr)	PM10 (Ton/Yr)	PM (lb/hr)	PM (Ton/Yr)	SO2 (lb/hr)	SO2 (Ton/Yr)	NOX (lb/hr)	NOX (Ton/Yr)	VOC (lb/hr)	VOC (Ton/Yr)	CO (lb/hr)	CO (Ton/Yr)
Aggreg. Dr	Nat gas	MMCF	10200601	133.0	2255.6	300.000	0.40	0.45	0.40	0.45	0.08	0.09	73.15	82.50	0.19	0.21	5.32	6.00
Aggreg. Dr	No. 4 oil	1000 gal	10200504	133.0	847.4	805.000	5.72	2.42	6.65	2.82	66.50	28.18	19.00	8.05	0.19	0.08	4.75	2.01
Aggreg. Dr	No 4 waste	1000 gal	10500113	133.0	847.4	805.000	48.45	20.53	57.95	24.55	66.50	28.18	15.20	6.44	0.10	0.04	2.00	0.85
Hot oil hea	No. 2 oil	1000 gal	10200501	2.80	8760.0	175.200	0.02	0.09	0.04	0.18	1.40	6.13	0.40	1.75	0.00	0.02	0.10	0.44
Hot oil hea	Nat gas	MMCF	10200601	2.80	8760.0	24.5	0.01	0.04	0.01	0.04	0.00	0.01	0.28	1.23	0.01	0.06	0.06	0.25
Hot oil hea	Propane	1000 gal	10201002	2.80	8760.0	260.936	0.01	0.03	0.02	0.08	0.00	0.01	0.57	2.48	0.01	0.03	0.10	0.42
Hot oil hea	Butane	1000 gal	10201001	2.80	8760.0	260.936	0.01	0.04	0.02	0.08	0.00	0.01	0.63	2.74	0.01	0.03	0.11	0.47

Limited hours of operation = kGal oil * 1000 * (0.14 MMBtu/Gal) / (MMBtu/hr) = (Limited fuel consumption) * (MMBtu/Unit) / (MMBtu/hr)

% sulfur in distillate oil = (0.5 lb SO2/MMBtu) * (1 lb S/2 lb SO2) * (0.14 M 0.486%

Unlimited Potential to Emit PM10 from Vehicle Travel on Unpaved Roads

Company Name:	Rieth-Riley Construction Co., Inc.
Street Address:	2605 South Kentucky Avenue, IN 46241
County:	Marion County
Operation Permit No.:	097-14764-00088
Reviewer:	N. Olsen

$$E = \frac{(k * s * S * W^{0.7} * w^{0.5}) \quad (365-p)}{(263.309) \qquad (365)}$$ = lb particulate/vehicle mile traveled on unpaved roads (AP-42, 13.2.2)

k =	0.36	particle size multiplier for PM10 (constant)
s =	5.7	silt content of road surface material (%), unspecified municipal roads
p =	120	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 (agg)	10	21	14	0.041	38	37.39	365	1.65	11.25
Single axle truck	10	11	6	0.0265	13	8.27	366	0.69	1.04
Tandem axle truck	10	15.5	10	0.0265	8.66	5.51	367	1.13	1.14
Triaxle truck (mix)	10	21	14	0.0265	6.5	4.13	368	1.65	1.25
Quad axle truck	10	25.5	18	0.0265	5.2	3.31	369	2.14	1.31
Front end loader	10	34.8	4	0.07	93.82	157.62	370	1.26	36.60
						Total fugitive PM10 emissions =			**52.59**
						Fugitive PM10 emission control =			**50.00%**
						Total fugitive PM10 emissions =			**26.30**

Example

E = [(0.36*6*10*40^0.7*18^0.5)* (365-120)] / [(263.309)*(365)] = 3.09 lb PM10/VMT

Unlimited Potential to Emit PM from Vehicle Travel on Unpaved Roads

Company Name:	Rieth-Riley Construction Co., Inc.
Street Address:	2605 South Kentucky Avenue, IN 46241
County:	Marion County
Operation Permit No.:	097-14764-00088
Reviewer:	N. Olsen

$$E = \frac{(k * s * S * W^{0.7} * w^{0.5})}{(263.309)} \frac{(365-p)}{(365)}$$ = lb particulate/vehicle mile traveled on unpaved roads (AP-42, 13.2.2)

k =	0.8	particle size multiplier for PM10 (constant)
s =	5.7	silt content of road surface material (%), unspecified municipal roads
p =	120	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 (agg)	10	21	14	0.041	38	37.39	365	3.66	25.01
Single axle truck	10	11	6	0.0265	13	8.27	366	1.53	2.31
Tandem axle truck	10	15.5	10	0.0265	8.66	5.51	367	2.50	2.53
Triaxle truck (mix)	10	21	14	0.0265	6.5	4.13	368	3.66	2.79
Quad axle truck	10	25.5	18	0.0265	5.2	3.31	369	4.76	2.90
Front end loader	10	34.8	4	0.07	93.82	157.62	370	2.79	81.34
						Total fugitive PM10 emissions =			**116.87**
						Fugitive PM10 emission control =			**50.00%**
						Total fugitive PM10 emissions =			**58.44**

Example

E = [(0.8*6*10*40^0.7*18^0.5)* (365-120)] / [(263.309)*(365)] = 6.87 lb PM10/VMT

Unlimited Potential to Emit from Material Handling

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

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

Operation	Number of Points	Individual Rate (ton/hr)	EF: PM10 Uncontrolled (lb/ton)	EF: PM10 Controlled (lb/ton)	Uncontrolled PM10 (ton/yr)	Controlled PM10 (ton/yr)
Conveyor trans.	4	400	0.0014	0.000048	9.81	0.34
Screening	1	400	0.0150	0.000840	26.28	1.47
Front end loader	1	400	0.0014	0.000048	2.45	0.08
				Total PM10	38.5	1.9

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

Operation	Number of Points	Individual Rate (ton/hr)	EF: PM Uncontrolled (lb/ton)	EF: PM Controlled (lb/ton)	Uncontrolled PM (ton/yr)	Controlled PM (ton/yr)
Conveyor trans.	4	400	0.0029	0.000101	20.60	0.71
Screening	1	400	0.0315	0.001764	55.19	3.09
Front end loader	1	400	0.0029	0.000101	5.15	0.18
				Total PM	80.9	4.0

PM and PM10 Emissions from Storage Piles

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 1605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

AP42 11.2-3.1 (1987)

s = silt content of aggregate, worst case (%) =	1.2
f = % time when wind > 12 mph at mean pile height =	15
p = no. of days/yr with > 0.01" pricipitation =	125
PC = total pile capacity (acres) =	1.830

EF [lb/day/acre] = 1.7 * (s/1.5) * [(365-p)/235] * (f/15)

EF [lb/day/acre] = 1.7 * (1.2/1.5) * [(365-125)/235] * (15/15)

EF [lb/day/acre] = 1.389

PM emissions = PC * EF * 365 day/yr * ton/2000 lbs

PM emissions = 0.718 acres * 1.389 lb/day/acre * 365 day/yr * ton/2000 lbs

PM emissions = 0.46 tons per year

PM10 = PM / 2.1= 0.22 tons per year

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

PM10 Emissions from Process Equipment

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

Unit	ID	Maximum Rated Capacity	Capacity Units	Emission Factor	Emis. Fact. Units	Control Device	Exhaust Flow (scfm)
Aggregate-Mixer (Fire 5.0, 30500201)	2/3, SV1	400	ton/hr	4.5 32.0	lbPM10/ton lbPM/ton	baghouse	48,000

	Unilimited PTE		Controlled Emissions (Max Capacity, 8760 hr)		Controlled Emissions **722,000**	**ton limit**
Unit	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)
Agg. Mixer	1800	7884	12.34	54.06	12.34	21.60
(PM)	12800	56064				

1,400,000	ton/year =	3,500	hours/year
		3,835.6	ton/day

10*6*41 = 2460

Total Facility Emissions	
Limited Potential to Emit	
Pollutant	**tons/yr**
PM	**141.22**
PM10	**97.74**
SO2	**64.64**
NOx	**99.00**
VOC	**0.45**
CO	**10.74**

= Dryer nat-gas + Dryer #4 oil + hot oil heater butane

ACFM	Stack Temp/F
70,000	310

Control Efficiency gr/dscf
0.03

SCFM
48,000

Combined HAP Emissions

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

Source	Aggregate Throughput (ton/hr)	Throughput (ton/yr)	Emission Factor (lb/ton)	Combined HAPs (lb/hr)	Combined HAPs (ton/yr)
Agg. Mixer/dryer	425	3,723,000	0.005800	2.47	10.80
Agg. Mixer/dryer	425	1,400,000	0.005800	2.47	4.06

AP-42 11.1-14 through 11.1-16
SCC 3-05-002-05

Multiple Fuel Limit
Sulfur Dioxide (SO2) Emissions from Dryer Burner

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

Heat Input Capacity:	133	MMBtu/hr
Heating Value of Distillate Oil:	0.14	MMBtu/gallon
Heating Value of Residual Oil:	0.15	MMBtu/gallon
Heating Value of Natural Gas:	1,000	Btu/Cubic Foot
Heating Value of Propane:	0.094	MMBtu/gallon

"SO2" Limit	
No. 4 Waste Oil Limited Firing	
(pollutant)	(tons/yr)
PM	53.0
PM-10	44.3
SO2	92.9
NOx	13.9
VOC	0.1
CO	1.8

Dryer Burner SO2 Limit:

FESOP Limit:	99	tons per year SO2
- Other Facilities:	6.1	tons per year SO2
SO2 Limit:	92.9	tons per year SO2

Annual Fuel Consumption: 8322 Kgal/yr

No. 4 Waste Oil ("SO2") Usage Limit: 1736.4 Kgal/yr

POTENTIAL EMISSIONS PER FUEL

No. 4 Waste Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/1000 Gallons	61.0	51.0	107.0	16.0	0.1	2.1
Potential Emission in tons/yr	253.8	212.2	445.2	66.6	0.4	8.7

No. 2 Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/1000 Gallons	2.0	1.0	78.5	20.0	0.2	5.0
Potential Emission in tons/yr	8.3	4.2	326.6	83.2	0.8	20.8

No. 4 Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/1000 Gallons	7.0	6.0	75.0	20.0	0.2	5.0
Potential Emission in tons/yr	29.1	25.0	312.1	83.2	0.8	20.8

Natural Gas:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	3.0	3.0	0.6	550.0	1.4	40.0
Potential Emission in tons/yr	1.7	1.7	0.3	320.4	0.8	23.3

Propane:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/1000 Gallons	0.6	0.3	0.1	19.0	0.3	3.2
Potential Emission in tons/yr	3.7	1.6	0.6	117.7	1.5	19.8

Alternate Fuel Limits as No. 4 Waste Oil Equivalent: SO2

Fuel	*SO2 Emission Factor*		*Limit (Kgal #4W/Fuel)*	
No. 4 Waste Oil	107	lb/Kgal	1.000	Kgal#4W/Kgal#4W
Natural Gas	0.6	lb/MMCF	5.607	Kgal#4W/MMCF
No. 4 Distillate	75	lb/Kgal	0.701	Kgal#4W/Kgal#4
No. 2 Distillate	78.5	lb/Kgal	0.734	Kgal#4W/Kgal#2
Propane	0.1	lb/Kgal	0.001	Kgal#4W/Kgal Propane

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) x Emission Factor (lb/1000 gal) x Heat Value Oil (gal/MMBtu) / 2,000 lb/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 Waste/Fuel) = Fuel Emission Factor (lb/Kgal or MMCF)/ No. 4 Waste Oil Emission Factor (lb/Kgal)
Emission Factors from AP 42, Chapter 1.4 and Fire 623.

Multiple Fuel Limit
Nitrogen Oxide (NOx) Emissions from Dryer Burner

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

Heat Input Capacity:	133	MMBtu/hr
Heating Value of Distillate Oil:	0.14	MMBtu/gallon
Heating Value of Residual Oil:	0.15	MMBtu/gallon
Heating Value of Natural Gas:	1,000	Btu/Cubic Foot
Heating Value of Propane:	0.094	MMBtu/gallon

"NOx" Limit	
Natural Gas Limited Firing	
(pollutant)	(tons/yr)
PM	0.5
PM-10	0.5
SO2	0.1
NOx	96.3
VOC	0.2
CO	7.0

Dryer Burner SO2 Limit:

FESOP Limit:	99	tons per year NOx
- Other Facilities:	2.7	tons per year NOx
NOx Limit:	96.3	tons per year NOx

Annual Fuel Consumption: 1165.1 MMCF/yr

Natural Gas ("NOx") Usage Limit: 350.2 MMCF/yr

POTENTIAL EMISSIONS PER FUEL

Natural Gas:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	3.0	3.0	0.6	550.0	1.4	40.0
Potential Emission in tons/yr	1.7	1.7	0.3	320.4	0.8	23.3

Propane:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	0.6	0.3	0.1	19.0	0.3	40.0
Potential Emission in tons/yr	3.7	1.6	0.6	117.7	1.5	247.9

No. 2 Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	2.0	1.0	78.5	20.0	0.2	5.0
Potential Emission in tons/yr	8.3	4.2	326.6	83.2	0.8	20.8

No. 4 Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.0	6.0	75.0	20.0	0.2	5.0
Potential Emission in tons/yr	29.1	25.0	312.1	83.2	0.8	20.8

No. 4 Waste Oil:

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	61.0	51.0	107.0	16.0	0.1	2.1
Potential Emission in tons/yr	236.9	198.1	415.5	62.1	0.4	8.2

Alternate Fuel Limits as Natural Gas Equivalent: NOx

Fuel	*NOx Emission Factor*	*Limit (MMCF/Fuel)*
Natural Gas	550 lb/MMCF	1.000 MMCF/MMCF
No. 4 Waste Oil	16 lb/Kgal	0.029 MMCF/Kgal#4W
No. 4 Distillate	20 lb/Kgal	0.036 MMCF/Kgal#4
No. 2 Distillate	20 lb/Kgal	0.036 MMCF/Kgal#2
Propane	19 lb/Kgal	0.035 MMCF/Kgal Propane

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) = 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/Fuel) = Fuel Emission Factor (lb/Kgal)/ Natural Gas Emission Factor (lb/MMCF)
Emission Factors from AP 42, Chapter 1.4 and Fire 623.

Short Term Limit
Particulate Matter < 10 Microns (PM-10) Emissions from Dryer Burner and Process Equipment

Company Name: Rieth-Riley Construction Co., Inc.
Street Address: 2605 South Kentucky Avenue, IN 46241
County: Marion County
Operation Permit No.: 097-14764-00088
Reviewer: N. Olsen

Unrestricted PM-10 Emissions (enforced @ 8,760 hrs):

Source	PM-10 (tons/yr)
Hot Oil Heater	0.09
Unpaved Roads	26.30
Material Handling	1.90
Storage Piles	0.22
TOTAL:	28.51

FESOP PM-10 Limit (based on 1,400,000 tons/yr asphalt production limit):		97.6 tons/yr.
Unrestricted PM-10 Emissions (enforced @ 8,760 hrs):	-	28.51 tons/yr.
Annual Allowable Dryer Burner and Process Equipment Emissions:		69.09 tons/yr.

Short Term Allowable PM-10 Limit (lbs/hr): (69.09 tons/yr) x (2000 lbs/ton) / (8760 hr/yr) = 15.77 lbs/hr

Short Term Allowable PM-10 Limit (lbs/ton): (15.77 lbs/hr) x (8760 hr/yr) / (1,400,000 tons/yr) = 0.099 lbs/ton

IDEM
and
Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365 Day Daily Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indanapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Sulfur Dioxides (SO2)

	Month:				Year:													
Day	waste oil Usage gals/day	#4 distillate oil Usage gals/day	#2 distillate oil Usage gals/day	propane gas usage gals/day	butane gas usage gals/day	Natural gas Usage MMCF/day	Daily waste oil equivalent (0.7009 x #4 distillate oil) (0.7336 x #2 distillate oil) (0.0009 x propane gas) (0.0009 x butane gas) (5.6070 x MMCF nat. gas)	TOTAL waste oil Usage this day gallons	waste oil usage last 365 days gals/365 days	waste oil LIMIT gals/365 days	Average sulphur content (%)			Average heating value MMBTU		
											waste oil	#4 dist. oil	#2 dist. oil	waste oil	#4 dist. oil	#2 dist. oil
1										1,736,554						
2										1,736,554						
3										1,736,554						
4										1,736,554						
5										1,736,554						
6										1,736,554						
7										1,736,554						
8										1,736,554						
9										1,736,554						
10										1,736,554						
11										1,736,554						
12										1,736,554						
13										1,736,554						
14										1,736,554						
15										1,736,554						

IDEM
and
Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365 day Daily Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Sulfur Dioxides (SO2)

Month: **Year:**

Day	waste oil Usage gals/day	#4 distillate oil Usage gals/day	#2 distillate oil Usage gals/day	propane gas usage gals/day	butane gas usage gals/day	Natural gas Usage MM cf/day	Daily waste oil equivalent (0.7009 x #4 distillate oil) (0.7336 x #2 distillate oil) (0.0009 x propane gas) (0.0009 x butane gas) (5.6070 x MMCF nat. gas)	TOTAL waste oil Usage this day gals/day	waste oil usage last 365 days gals/365 days	waste oil LIMIT gals/365 days	Average sulphur content (%)			Average heating value (MMBTU/gal)		
											waste oil	#4 dist. oil	#2 dist. oil	waste oil	#4 dist. oil	#2 dist. oil
16										1,736,554						
17										1,736,554						
18										1,736,554						
19										1,736,554						
20										1,736,554						
21										1,736,554						
22										1,736,554						
23										1,736,554						
24										1,736,554						
25										1,736,554						
26										1,736,554						
27										1,736,554						
28										1,736,554						
29										1,736,554						
30										1,736,554						
31										1,736,554						

☐ No deviation occurred in this month.
☐ Deviation/s occured in this month
Deviation has been reported on: _____

Submitted by: Dean K. Logan
Title/position: Asphalt Plant Specialist
Signature: _____
Phone No.: (574) 875-5183 Ext. 20226
Date: _____

IDEM
and
Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365 day Daily Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Nitrogen Oxides (NOx)

	Month:		Year:							
Day	Natural gas usage MMCF/day	Waste oil usage gals/day	#4 distillate oil usage gals/day	#2 distillate oil Usage gals/day	Propane Gas Usage gals/day	Butane Gas Usage gals/day	Daily Natural Gas Equivalent MMCF (0.029 x waste oil usage Kgal) (0.036 x #4 distillate oil usage Kgal) (0.036 x #2 distillate oil usage Kgal) (0.034 x propane usage Kgal) (0.038 x butane usage Kgal)	TOTAL Natural gas usage this day MMCF	TOTAL natural gas usage last 365 days gals/365 days	Natural gas LIMIT MMCF/365 days
1										350.18
2										350.18
3										350.18
4										350.18
5										350.18
6										350.18
7										350.18
8										350.18
9										350.18
10										350.18
11										350.18
12										350.18
13										350.18
14										350.18
15										350.18

IDEM
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Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365 day Daily Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapoils, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Nitrogen Oxides (NOx)

	Month:		Year:							
Day	Natural gas Usage MMCF/day	Waste oil Usage gals/day	#4 distillate oil usage gals/day	#2 distillate oil Usage gals/day	Propane gas usage gals/day	Butane gas usage gals/day	Daily Natural Gas Equivalent MMCF (0.029 x waste oil usage Kgal) (0.036 x #4 distillate oil usage Kgal) (0.036 x #2 distillate oil usage Kgal) (0.034 x propane usage Kgal) (0.038 x butane usage Kgal)	TOTAL Natural gas usage this day MMCF	TOTAL Natural gas usage last 365 days MMCF/365 days	Natural gas LIMIT MMCF/365 days
16										350.18
17										350.18
18										350.18
19										350.18
20										350.18
21										350.18
22										350.18
23										350.18
24										350.18
25										350.18
26										350.18
27										350.18
28										350.18
29										350.18
30										350.18
31										350.18

☐ No deviation occurred in this month.
☐ Deviation/s occured in this month
Deviation has been reported on: _____

Submitted by: Dean K. Logan
Title/Position: Asphalt Plant Specialist
Signature: _____
Phone No.: (574) 875-5183 Ext. 20226
Date: _____

IDEM
and
Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365-day Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Particulate Matter (PM10)

Month:		Year:	
DAY	Amount of asphalt concrete produced this day (tons/day)	Amount of asphalt concrete produced last 365 days (tons/365 days)	asphalt concrete production limit (tons/365 days)
1			1,400,000
2			1,400,000
3			1,400,000
4			1,400,000
5			1,400,000
6			1,400,000
7			1,400,000
8			1,400,000
9			1,400,000
10			1,400,000
11			1,400,000
12			1,400,000
13			1,400,000
14			1,400,000
15			1,400,000

IDEM
and
Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365-day Daily rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Particulate Matter (PM10)

Month:		Year:	
DAY	Amount of asphalt concrete produced this day (tons/day)	Amount of asphalt concrete produced last 365 days (tons/365 days)	asphalt concrete production limit (tons/365 days)
16			1,400,000
17			1,400,000
18			1,400,000
19			1,400,000
20			1,400,000
21			1,400,000
22			1,400,000
23			1,400,000
24			1,400,000
25			1,400,000
26			1,400,000
27			1,400,000
28			1,400,000
29			1,400,000
30			1,400,000
31			1,400,000

☐ No deviation occurred in this month.
☐ Deviation/s occured in this month
Deviation has been reported on: _____

Submitted by: Dean K. Logan
Title/Position: Asphalt Plant Specialist
Signature: _____
Phone No.: (574) 875-5183 Ext 20226
Date: _____

IDEM
and
Indianapolis Office of Environmental Services
Air Quality Management Section - Compliance Data Group
Quarterly Report of 365-day Rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-030088
Source/Facility: Drum mixer/dryer burner
Pollutant: Volatile Organic Compound (VOC)

Month:		Year:			
DAY	Type of liquid binder used this day	Amount of liquid binder used in the production of coldmix cutback asphalt this day (tons/day)	VOC, solvent content by weight of binder used this day (%)	Amount of VOC, solvent used this day (tons/day)	Amount of VOC, solvent used in lst 365 days (tons/365 days)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

IDEM
and
Office of Environmental Services
Air Quality Management - Compliance Data Group
Quarterly Report of 365-day Daily rolling Total

Company Name: Rieth-Riley Construction Co. Inc.
Location: 2605 South Kentucky Avenue, Indianapolis, IN 46241
Permit No: F097-14764-00088
Source/Facility: Drum mixer/dryer burner
Pollutant: Volatile Organic Compounds (VOC)

Month:		YEAR:			
DAY	Type of liquid binder used this day	Amount of liquid binder used in the production of coldmix cutback asphalt this day (tons/day)	VOC, solvent content by weight of binder used this day (%)	Amount of VOC, solvent used this day (tons/day)	Amount of VOC, solvent used in lst 365 days (tons/365 days)
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

☐ No deviation occurred in this month.
☐ Deviation/s occured in this month
Deviation has been reported on: _____

Submitted by: Dean K. Logan
Title/Position: Asphalt Plant Specialist
Signature: _____
Phone No.: (574) 875-5183 Ext 20226
Date: _____