



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

July 8, 2004

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Rieth Riley Construction Company, Inc. / SPR 089-18838-03226

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures  
FNPER.dot 9/16/03

**July 8, 2004**

Mr. Dean Logan  
Rieth Riley Construction Company, Inc.  
P. O. Box 477  
Goshen, Indiana 46517

Re: 089-18838-03226  
First Significant Revision to  
FESOP 089-15623-03226

Dear Mr. Logan:

Rieth Riley Construction Company, Inc., located at 301 North Cline Avenue, Gary, Indiana 46406 was issued a FESOP Renewal on November 7, 2002 relating to the construction and operation of new facilities used in the manufacture of asphalt cement. A letter requesting changes to this permit was received on April 12, 2004. Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document. The following are the new facilities for construction:

- (a) One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);
- (b) One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and
- (c) One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.

The following construction conditions are applicable to the proposed project:

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

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Aida De Guzman OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Sincerely,

Original signed by  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments

APD

cc: File - Lake County  
U.S. EPA, Region V  
Lake County Health Department  
Gary Department of Environmental Affairs  
Northwest Regional Office  
Air Compliance Section Inspector - Rick Massoels/Ramesh Tejuja  
Compliance Data Section  
Administrative and Development

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP) RENEWAL  
OFFICE OF AIR QUALITY  
and Gary Department of Environmental Affairs**

**Rieth Riley Construction Co., Inc.  
301 North Cline Avenue  
Gary, Indiana 46406**

(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.: F 089-15623-03226	
Issued by: Paul Dubenetzky, Branch Chief Permit Branch Office of Air Quality	Issuance Date: November 7, 2002  Expiration Date: November 7, 2007
First Significant Permit Revision No.: 089-18838	Pages Affected: 2, 3, 4, 6, 27, 28, 31, 35
Issued by: Original signed by Paul Dubenetzky, Branch Chief Permit Branch Office of Air Quality	Issuance Date: July 8, 2004

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- (i) One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);
- (j) One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and
- (k) One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.

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

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

- (a) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (b) Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

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

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

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

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

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) drum mixer, constructed in 1998, equipped with a baghouse for PM control and exhausted to Stack SV1, capacity: 600 tons per hour.
- (b) One (1) dryer burner, constructed in 1998, equipped with a low NO<sub>x</sub> burner, firing natural gas as primary fuel, using butane or propane gas as a backup fuel, exhausting to Stack SV1, rated at 200 million British thermal units per hour.
- (c) Two (2) hot oil heaters, firing natural gas as primary fuel, using No. 2 distillate oil and propane gas as backup fuels, exhausting to Stacks SV2 and SV3, capacity: 2.0 and 2.256 million British thermal units per hour, respectively.
- (d) Four (4) tanks, identified as 13A, 13B, 13C and 13D, storing liquid asphalt, each constructed prior to July 23, 1984, exhausting to Stacks SV4, SV5, SV6 and SV7, capacity: 12,500 gallons, each.
- (e) One (1) tank, storing liquid asphalt, constructed in 1998, exhausting to Stack SV8, capacity: 25,000 gallons.
- (f) One (1) tank, storing No. 2 distillate oil, exhausting to Stack SV10, capacity: 10,000 gallons.
- (g) One (1) tank, storing liquid asphalt, constructed in 2002, exhausting to Stack SV11, capacity: 30,000 gallons.
- (h) Cold-mix cutback asphalt production.
- (i) One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);
- (j) One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and
- (k) One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.

(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 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]

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

#### D.1.2 Particulate Matter (PM<sub>10</sub>) [326 IAC 2-8-4] [326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4, emissions of particulate matter 10 microns or less in diameter (PM<sub>10</sub>) from the aggregate dryer/mixer shall not exceed 0.194 pounds per ton of asphalt produced, including both filterable and condensable fractions.

- (b) The source shall produce less than 1,000,000 tons of asphalt per 365 consecutive day period, with compliance determined at the end of each day, equivalent to PM<sub>10</sub> emissions less than 97.0 tons per year based on the 0.194 pounds of PM<sub>10</sub> per ton of asphalt produced. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7), and 326 IAC 2-3, do not apply.

D.1.3 Particulate Matter (PM) [326 IAC 2-3]

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- (a) Pursuant to 326 IAC 2-3, PM emissions from the aggregate dryer/mixer shall not exceed 0.1528 pounds per ton of asphalt produced.
- (b) The source shall produce less than 1,000,000 tons of asphalt per 365 consecutive day period, with compliance determined at the end of each day, equivalent to PM emissions less than 76.4 tons per year based on the 0.1528 pounds of PM per ton of asphalt produced. Therefore, the Emission Offset rules (326 IAC 2-3) do not apply.

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

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Pursuant to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), no owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

- (a) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot, equivalent to 28.8 pounds per hour at a flow rate of 119,086 actual cubic feet per minute and a temperature of 250 degrees Fahrenheit.
- (b) Exhibit twenty (20%) percent opacity, or greater.

D.1.5 Particulate Matter (PM) [326 IAC 6-1]

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Pursuant to 326 IAC 6-1-2(a), the owner or operator shall not allow or permit discharge to the atmosphere of any gases from the one (1) drum mixer which contain particulate matter in excess of 0.03 grains per dry standard cubic foot, equivalent to 21.63 pounds per hour at a flow rate of 119,086 actual cubic feet per minute and a temperature of 250 degrees Fahrenheit.

D.1.6 Nitrogen Oxides (NO<sub>x</sub>) [326 IAC 2-8-4]

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- (a) Pursuant to 326 IAC 2-8-4, the input of natural gas to the Mixer/Dryer shall be limited to 1,214.0 million cubic feet per 365 consecutive day period, with compliance determined at the end of each day. This fuel usage limit shall restrict the NOX emissions to 85.0 tons per year. Therefore, the Part 70 rules (326 IAC 2-7), do not apply.
- (b) For purposes of determining compliance based on NO<sub>x</sub> emissions, each gallon of butane shall be equivalent to 0.00015 million cubic feet of natural gas, and each gallon of propane shall be equivalent to 0.00014 million cubic feet of natural gas.

D.1.7 Volatile Organic Compounds (VOC) [326 IAC 2-8-4] [326 IAC 2-3]

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Pursuant to 326 IAC 2-8-4, the total amount of liquid binder used in the production of cold mix cutback asphalt shall be limited to less than 675.8 tons of liquid binder per 365 consecutive day period, and the daily average diluent content of the liquid binder shall not exceed five (5.0%) percent. This is equivalent to VOC emissions of less than 20.8 tons per year. Therefore, the requirements of 326 IAC 2-7 and 326 IAC 2-3 are not applicable.

D.1.8 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

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Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: asphalt paving), the owner or operator shall not cause or allow the use of asphalt emulsion containing more than seven (7.0) percent oil distillate by volume of emulsion for any paving application except the following purposes:

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

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

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

- (c) To document compliance with Condition D.1.13, the Permittee shall maintain records of visible emission notations of the conveyers, material transfer points and the drum mixer/burner stack exhaust SV1 once per shift.
- (d) To document compliance with Condition D.1.14, the Permittee shall maintain once per shift records of the total static pressure drop during normal operation.
- (e) To document compliance with Condition D.1.15, the Permittee shall maintain records of the results of the inspections required under Condition D.1.15.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.19 Record Keeping [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

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- (a) The one (1) tank, exhausting to Stack SV8, with a capacity of 25,000 gallons, the one (1) tank, exhausting to Stack SV11, with a capacity of 30,000 gallons, and the one (1) tank, identified as Tank 13G with a capacity of 30,000 gallons, shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). These tanks are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b), which require the Permittee to maintain accessible records showing the dimensions of the storage vessels and an analysis showing the capacity of the storage vessels. Records shall be kept for the life of the storage tanks.
- (0)2 Any change in the VOL stored with true vapor pressure of equal to or greater than 27.6 kPa but less than 76.6 kPa from the storage tanks in (a) of this condition shall be subject to Section 60.112b, 60.113b, 60.115b, and 60.116b of the NSPS, Subpart Kb.

#### D.1.20 Reporting Requirements

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A quarterly summary of the information to document compliance with Conditions D.1.2, D.1.3, D.1.6 and D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within

thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Gary, Indiana  
 Reviewer: EAL/MES

Revised by: Aida De Guzman OP No. F 089-15623-03226

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 COMPLIANCE DATA SECTION  
 Gary Department of Environmental Affairs  
 FESOP Monthly Report**

Source Name: Rieth Riley Construction Co., Inc.  
 Source Address: 301 North Cline Avenue, Gary, Indiana 46406  
 Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477  
 FESOP No.: F 089-15623-03226  
 Facility: Mixer/Dryer  
 Parameter: Amount of natural gas or equivalent fuel burned in the aggregate dryer (NO<sub>x</sub>)  
 Limit: Less than 1,214 million cubic feet per 365 consecutive day period, with compliance determined at the end of each day, where each gallon of butane shall be equivalent to 0.00015 million cubic feet of natural gas, and each gallon of propane shall be equivalent to 0.00014 million cubic feet of natural gas. This limit shall restrict the NOX emissions 85.0 tons per year.

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

Day	Fuel Type	Fuel Usage This Day (MMCF or gallon*)	Equivalent/Total Natural Gas Fuel Usage This Day (MMCF)	Equivalent/Total Natural Gas Fuel Usage This 364 Days (MMCF)	Equivalent/Total Natural Gas Fuel Usage This 365 Days (MMCF)	Day	Fuel Type	Fuel Usage This Day (MMCF or gallon*)	Equivalent/Total Natural Gas Fuel Usage This Day (MMCF)	Equivalent/Total Natural Gas Fuel Usage This 364 Days (MMCF)	Equivalent/Total Natural Gas Fuel Usage This 365 Days (MMCF)
1						17					
2						18					
3						19					
4						20					
5						21					
6						22					
7						23					
8						24					
9						25					
10						26					
11						27					
12						28					
13						29					
14						30					
15						31					
16											

\* Use gallon if using butane or propane, and MMCF if using natural gas. 9 No deviation occurred in this month.  
9 Deviation/s occurred in this month.  
 Deviation has been reported on: \_\_\_\_\_

Gary, Indiana  
Reviewer: EAL/MES

Revised by: Aida De Guzman OP No. F 089-15623-03226

Submitted by: \_\_\_\_\_

Signature: \_\_\_\_\_

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

Attach a signed certification to complete this report

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

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

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Gary Department of Environmental Affairs**

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

**Source Background and Description**

<b>Source Name:</b>	<b>Rieth Riley Construction Co., Inc.</b>
<b>Source Location:</b>	<b>301 North Cline Avenue, Gary, Indiana 46406</b>
<b>County:</b>	<b>Lake</b>
<b>SIC Code:</b>	<b>2951</b>
<b>Operation Permit No.:</b>	<b>089-15623-03226</b>
<b>Operation Permit Issuance Date:</b>	<b>November 7, 2002</b>
<b>First Significant Permit Revision No.:</b>	<b>089-18838</b>
<b>Permit Reviewer:</b>	<b>Aida De Guzman</b>

The Office of Air Quality (OAQ) has reviewed a revision application from Rieth Riley Construction Co., Inc. relating to the construction and operation of the following facilities used in the manufacture of asphalt cement:

- (a) One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);
- (b) One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and
- (c) One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.

**History**

On April 12, 2004, Rieth Riley Construction Co., Inc. submitted an application to the OAQ requesting to add additional emission units to their existing plant Rieth Riley Construction Co., Inc. was issued a FESOP Renewal (089-15623-03226) on November 2, 2002.

**Existing Approvals**

The source was originally issued FESOP 089-5554-03226 on December 9, 1996. FESOP Renewal 089-15623-03226 was issued on November 2, 2002. The FESOP Renewal has not been amended nor revised except in this proposed Significant Permit Revision 089-18838, and there is one (1) pending Administrative Amendment 089-18901 being processed by IDEM, OAQ.

**Recommendation**

The staff recommends to the Commissioner that the Significant Permit Revision 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.

**Emission Calculations**

- (a) Hot Oil Heater Fired by Distillate No. 4:  
See Page 1 of 1 TSD Appendix A for detailed emission calculations.
- (b) Horizontal Liquid Asphalt Storage Tank, Tank13G (30,000 gallon capacity):  
Negligible VOC emissions. See Tanks Program 4.0 Spreadsheet Calculations.
- (c) Rectangular #2 Fuel Oil Storage Tank, Tank 12B (420 gallon capacity):  
Negligible VOC emissions since it is a lot smaller tank than Tank13G.

**Potential To Emit**

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

Pollutant	Potential To Emit (tons/year)
PM	0.3
PM-10	0.3
SO <sub>2</sub>	3.5
VOC	0.0
CO	0.2
NO <sub>x</sub>	2.2

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

- (a) Although the SO<sub>2</sub> emission is at insignificant level, this modification will require a significant revision to the FESOP since it will require an adjustment to the emission cap, pursuant to 326 IAC 2-8-11.1(g)(2). See “Revised Limited Potential To Emit Table” for the adjusted emission cap.

**Potential to Emit After the Modification**

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

Process/facility	CURRENT LIMITED POTENTIAL TO EMIT (TONS/YR)						
	PM	PM10	SO <sub>2</sub>	VOC	NOX	CO	HAPs
<b>Existing Facility Permitted in F089-15623:</b>							
Drum Mixer including Dryer Burner (worst case)	< 76.4	< 97.0	0.417	3.81	< 97.15	58.3	-
Hot Oil Heaters (worst case)	0.270	0.446	9.59	0.387	2.85	1.57	-
Conveying Handling	6.91	0.691	-	-	-	-	-
Screening	15.8	1.58	-	-	-	-	-
Storage Piles	0.567	0.199	-	-	-	-	-
Unpaved Roads	149	33.3	-	-	-	-	-
Cutback Asphalt	-	-	-	< 20.8	-	-	-
Current Total Limits	<100*	<100*	10	<25	<100	59.9	< 10 single <25 combined

	<b>**REVISED LIMITED POTENTIAL TO EMIT (TONS/YR)</b>						
Process/facility	PM	PM10	SO <sub>2</sub>	VOC	NOX	CO	HAPs
<b>Existing Facilities Permitted in F089-15623:</b>							
Drum Mixer including Dryer Burner (worst case)	66.8	84.8	0.436	3.33	85.0	51.0	17.47
Hot Oil Heaters (worst case)	0.270	0.446	9.59	0.387	1.57	2.85	-
Conveying Handling	6.91	0.691	-	-	-	-	-
Screening	15.8	1.58	-	-	-	-	-
Storage Piles*	0.567	0.199	-	-	-	-	-
Unpaved Roads*	149	33.3	-	-	-	-	-
Cutback Asphalt	-	-	-	20.8	-	-	-
<b>New Facilities (Modification):</b>							
Hot Oil Heater	0.3	0.3	3.5	0.0	2.2	0.2	-
Storage Tanks	-	-	-	0.0	-	-	-
Revised Total Limited PTE ( PTE After Modification)	90.08*	87.8*	13.5	24.5 limit	88.8 **	54.1	< 10 single <25 combined limits

\* - Excluding fugitive emissions from unpaved roads and storage piles.

\*\* - Revised PTE based on the adjusted NOx emissions cap.

- (a) The Mixer/Dryer current fuel usage will be adjusted to account for the NOx PTE from the modification, in order to keep the NOx below 100 tons per year. The source also requested about 10 tons/yr cushion from their NOx emission limit in order to avoid adjusting the emission cap for any future addition of insignificant activities that will trigger significant revisions. All the other pollutants from the Mixer/Dryer will also follow:

**Current Limits:**

- 97.15 tons NOx per year - 1,387.86 MMcf/year natural gas
- 9,252.4 kgal/year butane \*
- 10,226.3 kgal/year propane\*

\* - These limits were not added in the FESOP since fuel equivalency was included as a condition.

**New Limits:**

- 85 tons Nox per year - 1,214 MMcf/year natural gas
- 8,095.3 kgal/year butane
- 8,947.3 kgal/year propane

**Methodology:**

New fuel limit = 85 tons/yr. / 97.15 tons/yr. \* current specific type fuel limit

The other pollutants from the Mixer/Dryer will also be adjusted based on its new NOx Limit as follows:

PM = 85 tons/yr. / 97.15 tons/yr. \* current PTE, 76.4 tons/yr.

	=	66.8 tons/yr.
PM10	=	85 tons/yr. / 97.15 tons/yr. * current PTE, 97 tons/yr.
	=	84.8 tons/yr.
SO <sub>2</sub>	=	85 tons/yr. / 97.15 tons/yr. * current PTE, 0.417 tons/yr.
	=	0.36 tons/yr.
VOC	=	85 tons/yr. / 97.15 tons/yr. * current PTE, 3.81 tons/yr.
	=	3.33 tons/yr.
CO	=	85 tons/yr. / 97.15 tons/yr. * current PTE, 58.3 tons/yr.
	=	51.0 tons/yr.
HAPs	=	85 tons/yr. / 97.15 tons/yr. * current PTE, 19.97 tons/yr.
	=	17.47 tons/yr.

- (b) This modification to an existing minor source is not major for VOC and SO<sub>2</sub>, as the emission increase are less than the Emission Offset threshold of 25 tons per year and 100 tons per year respectively. Therefore, pursuant to 326 IAC 2-3 Emission Offset requirements do not apply.
- (c) This modification to an existing minor source is not major for PM10, NO<sub>x</sub>, and CO, as the emission increase is less than the PSD major threshold of 250 tons per year. Therefore, pursuant to 326 IAC 2-2 Prevention of Significant Deterioration requirements do not apply.

**County Attainment Status**

The source is located in Lake County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Primary Nonattainment
NO <sub>2</sub>	Attainment
Ozone	Severe Nonattainment
CO	Attainment
Lead	Not designated

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

**Federal Rule Applicability**

- (a) New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
  - (1) 40 CFR Part 60.110b, Subpart Kb – Standard of performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Storage Vessels) for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. This rule applies to each storage vessel with a capacity greater than or equal to 40 cubic meter (m<sup>3</sup>) (10,567 gallons).
    - (A) Tank 13G with a capacity of 30,000 gallons is subject only to the “Monitoring of Operation” requirements of Part 60.116b(a) and (b) of this NSPS, 40 CFR Part 60.110b, Subpart Kb, since it will be storing liquid with a maximum true vapor pressure of less than 15 kPa. Any change in the VOL stored with true vapor pressure of equal to or greater than 27.6 kPa but less than 76.6 kPa shall be subject to Section 60.112b, 60.113b,

and 60.116b of this NSPS, Subpart Kb.

- (B) Tank 12B with a capacity of 420 gallons is exempted from 40 CFR Part 60.110b, Subpart Kb.
- (2) There are no other NSPS that may possibly be applicable to this modification.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 20 and 40 CFR Part 61 and 63) applicable to this source.

#### State Rule Applicability - Entire Source

- (a) 326 IAC 2-3 (Emission Offset Requirements)  
This existing minor source will remain a minor source, as the VOC and SO<sub>2</sub> emissions from the modification are less than the Emission Offset threshold of 25 tons per year and 100 tons per year respectively.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration Requirements)  
This existing minor source will remain a minor source, as the PM<sub>10</sub>, NO<sub>x</sub>, and CO emissions from the modification are less than the PSD major threshold of 250 tons per year.

#### State Rule Applicability - Individual Facilities

- (a) 326 IAC 8 (Volatile Organic Sources)  
There are no rules in article 326 IAC 8 that apply to this modification, as no VOC is emitted.
- (b) 326 IAC 6-2 (PM Emission Limitation for Sources of Indirect Heating)  
The Hot Oil Heater is not subject to this 326 IAC 6-2, as it is not a source of indirect heating.

#### Compliance Requirements

Permits issued under 326 IAC 2-7 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 2-7-5. 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.

#### Changes to the FESOP

The FESOP will be revised to incorporate the new emission units (additions are **bolded** and deletions are ~~struck through~~ for emphasis):

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

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

- (a) One (1) drum mixer, constructed in 1998, equipped with a baghouse for PM control and

exhausted to Stack SV1, capacity: 600 tons per hour.

- (b) One (1) dryer burner, constructed in 1998, equipped with a low NOX burner, firing natural gas as primary fuel, using butane or propane gas as a backup fuel, exhausting to Stack SV1, rated at 200 million British thermal units per hour.
- (c) Two (2) hot oil heaters, firing natural gas as primary fuel, using No. 2 distillate oil and propane gas as backup fuels, exhausting to Stacks SV2 and SV3, capacity: 2.0 and 2.256 million British thermal units per hour, respectively.
- (d) Four (4) tanks, identified as 13A, 13B, 13C and 13D, storing liquid asphalt, each constructed prior to July 23, 1984, exhausting to Stacks SV4, SV5, SV6 and SV7, capacity: 12,500 gallons, each.
- (e) One (1) tank, storing liquid asphalt, constructed in 1998, exhausting to Stack SV8, capacity: 25,000 gallons.
- (f) One (1) tank, storing No. 2 distillate oil, exhausting to Stack SV10, capacity: 10,000 gallons.
- (g) One (1) tank, storing liquid asphalt, constructed in 2002, exhausting to Stack SV11, capacity: 30,000 gallons.
- (h) Cold-mix cutback asphalt production.
- (i) **One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);**
- (j) **One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and**
- (k) **One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.**

#### SECTION D.1

#### FACILITY OPERATION CONDITIONS

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

- (a) One (1) drum mixer, constructed in 1998, equipped with a baghouse for PM control and exhausted to Stack SV1, capacity: 600 tons per hour.
- (b) One (1) dryer burner, constructed in 1998, equipped with a low NOX burner, firing natural gas as primary fuel, using butane or propane gas as a backup fuel, exhausting to Stack SV1, rated at 200 million British thermal units per hour.
- (c) Two (2) hot oil heaters, firing natural gas as primary fuel, using No. 2 distillate oil and propane gas as backup fuels, exhausting to Stacks SV2 and SV3, capacity: 2.0 and 2.256 million British thermal units per hour, respectively.
- (d) Four (4) tanks, identified as 13A, 13B, 13C and 13D, storing liquid asphalt, each constructed prior to July 23, 1984, exhausting to Stacks SV4, SV5, SV6 and SV7, capacity: 12,500 gallons, each.
- (e) One (1) tank, storing liquid asphalt, constructed in 1998, exhausting to Stack SV8, capacity: 25,000 gallons.
- (f) One (1) tank, storing No. 2 distillate oil, exhausting to Stack SV10, capacity: 10,000 gallons.

- (g) One (1) tank, storing liquid asphalt, constructed in 2002, exhausting to Stack SV11, capacity: 30,000 gallons.
- (h) Cold-mix cutback asphalt production.
- (i) **One (1) hot oil heater, fired by distillate fuel oil no.4, with rated capacity of 1.5 million British thermal units per hour (mmBtu/hr);**
- (j) **One (1) above ground horizontal fixed roof cone storage tank, identified as Tank 13G for storing liquid asphalt cement, with a capacity of 30,000 gallons; and**
- (k) **One (1) 5.5 feet by 1.5 feet above ground rectangular storage tank, identified as Tank 12B for storing fuel oil no.2, with a capacity of 420 gallons.**

(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 through D.1.5 no change

#### D.1.6 Nitrogen Oxides (NOx) [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the input of natural gas to the **Mixer/Dryer burner** shall be limited to ~~less than 1,387.86~~ **1,214.0** million cubic feet per 365 consecutive day period, with compliance determined at the end of each day. **This fuel usage limit which is equivalent shall restrict the NOx emissions to of less than 97.15 85.0** tons per year. Therefore, the Part 70 rules (326 IAC 2-7), do not apply.
- (b) For purposes of determining compliance based on NOx emissions, each gallon of butane shall be equivalent to 0.00015 million cubic feet of natural gas, and each gallon of propane shall be equivalent to 0.00014 million cubic feet of natural gas.

#### D.1.19 Record Keeping [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

- (a) The one (1) tank, exhausting to Stack SV8, with a capacity of 25,000 gallons, ~~and the one (1) tank, exhausting to Stack SV11, with a capacity of 30,000 gallons, and the one (1) tank, identified as Tank 13G with a capacity of 30,000 gallons,~~ shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). These tanks are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b), which require the Permittee to maintain accessible records showing the dimensions of the storage vessels and an analysis showing the capacity of the storage vessels. Records shall be kept for the life of the storage tanks.
- (b) **Any change in the VOL stored with true vapor pressure of equal to or greater than 27.6 kPa but less than 76.6 kPa from the storage tanks in (a) of this condition shall be subject to Section 60.112b, 60.113b, 60.115b, and 60.116b of the NSPS, Subpart Kb.**

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

**Gary Department of Environmental Affairs**

**FESOP Monthly Report**

Source Name: Rieth Riley Construction Co., Inc.  
 Source Address: 301 North Cline Avenue, Gary, Indiana 46406  
 Mailing Address: P.O. Box 477, Goshen, Indiana 46527-0477  
 FESOP No.: F 089-15623-03226  
 Facility: Mixer/Dryer  
 Parameter: Amount of natural gas or equivalent **fuel** burned in the aggregate dryer (NO<sub>x</sub>)  
 Limit: ~~Less than 1,387.86~~ **1,214** million cubic feet natural gas per 365 consecutive day period with compliance determined at the end of each day, where each gallon of butane shall be equivalent to 0.00015 million cubic feet of natural gas, and each gallon of propane shall be equivalent to 0.00014 million cubic feet of natural gas. ~~This limit be equivalent shall restrict to the NO<sub>x</sub> emissions less than 97.15 to~~ **85.0** tons per year.

Month:	Million cubic feet of natural gas or equivalent burned (this day)	Million cubic feet of natural gas or equivalent burned (last 364 days)	Million cubic feet of natural gas or equivalent burned (365-day total)	Day	Million cubic feet of natural gas or equivalent burned (this day)	Million cubic feet of natural gas or equivalent burned (last 364 days)	Million cubic feet of natural gas or equivalent burned (365-day total)
Year:							
Day							
1				17			
2				18			
3				19			
4				20			
5				24			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				34			
16							

Day	Fuel Type	Fuel Usage This Day (MMCF, or gallon*)	Equivalent/ Total Natural Gas Fuel Usage This Day (MMCF)	Equivalent/ Total Natural Gas Fuel Usage Last 364 Days (MMCF)	Equivalent/ Total Natural Gas Fuel Usage Last 365Days (MMCF)	Day	Fuel Type	Fuel Usage This Day (MMCF, or gallon*)	Equivalent/ Total Natural Gas Fuel Usage This Day (MMCF)	Equivalent/ Total Natural Gas Fuel Usage Last 364 Days (MMCF)	Equivalent/ Total Natural Gas Fuel Usage Last 365 Days (MMCF)
1						17					
2						18					
3						19					
4						20					
5						21					
6						22					
7						23					
8						24					
9						25					
10						26					
11						27					
12						28					
13						29					
14						30					
15						31					
16											

\* Use gallon if using butane or propane, and MMCF if using natural gas.

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
Deviation has been reported on: \_\_\_\_\_  
Submitted by: \_\_\_\_\_  
Title/Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

### Conclusion

The operation of the hot oil heater and storage tanks to be used in the asphalt cement production shall be subject to the conditions of the attached **Significant Permit Revision 089-18838-03226**.

**Appendix A: Emissions Calculations  
Industrial Boilers (> 100 mmBtu/hr)  
#4 Fuel Oil**

**Company Name: Rieth Riley Construction Co., Inc.  
Address, City IN Zip: 301 North Cline Avenue, Gary, Indiana 46406  
Permit Number: 089-18838  
Plt ID: 089-03226  
Reviewer: Aida De Guzman  
Date Application Received: 12-Apr-04**

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5	1.5 mmBtu/hr hot oil heater
1.5	93.86		

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	7.0	75 (150.0S)	47.0	0.20	5.0
Potential Emission in tons/yr	0.3	3.5	2.2	0.0	0.2

**Methodology**

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-02-005-01/02/03) Supplement E 9/98

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

No HAPs emission factors are found in AP-42