



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: August 19, 2005
RE: Robert L. Kelly Asphalt, Inc. / 181-17470-03172
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 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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Mr. Ken Kelly
Robert L. Kelly, Inc.
348 East U.S. Hwy. 24
Reynolds, Indiana 47980

August 19, 2005

Re: 181-17470-03172
First Significant Permit Revision to
FESOP No.: F 181-13818-03172

Dear Mr. Kelly:

Robert L. Kelly, Inc. was issued a permit on January 6, 2003 for a stationary hot mix asphalt batch plant. A letter requesting changes to this permit was received on June 27, 2003. 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 revision consists of:

- (a) a change in the stack configuration such that all of the emissions from the aggregate dryer are exhausted through Stack SV1 instead of SV1, SV2, and SV3, and
- (b) removal of the 40 CFR 60, Subpart I New Source Performance Standard (NSPS) requirements because the equipment was constructed in 1965, prior to the applicable date of June 11, 1973.

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 Scott Fulton, OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46204, or call at (800) 451-6027, and ask for Scott Fulton or extension (3-5691), or dial (317) 233-5691.

Sincerely,

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

Attachments
SDF

cc: File - White County
U.S. EPA, Region V
White County Health Department
Air Compliance Section Inspector - Wanda Stanfield
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner
Robert L. Kelly, Inc., Robert Kelly, 348 East U.S. Hwy. 24, Reynolds, Indiana 47980

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Mitchell E. Daniels, Jr.
 Governor

Thomas W. Easterly
 Commissioner

100 North Senate Avenue
 Indianapolis, Indiana 46204
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**FEDERALLY ENFORCEABLE STATE
 OPERATING PERMIT (FESOP)
 OFFICE OF AIR QUALITY**

**Robert L. Kelly, Inc.
 366 East U.S. Highway 24
 Reynolds, Indiana 47980**

(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.: F181-13818-03172 | Date Issued: January 6, 2003 Expiration Date: January 6, 2008 |
| Issued by: Paul Dubenetzky, Branch Chief, Office of Air Quality | |
| First Significant Permit Revision No.: 181-17470-03172 | Affected Pages: 2 - 5, 23 - 26, with 3a added |
| Issued by: Original signed by Paul Dubenetzky, Chief Permits Branch Office of Air Quality | Issuance Date: August 19, 2005 |
| | |

Robert L. Kelly, Inc.
Reynolds, Indiana
Permit Reviewer: Linda Quigley/EVP

First Significant Permit Revision No.: 181-17470-03172
Revised By: SDF

Page 2 of 33
OP No. F181-13818-03172

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Stratospheric Ozone Protection

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- D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 7-2-1]
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- D.1.9 Visible Emissions Notations
- D.1.10 Parametric Monitoring
- D.1.11 Cyclone/Wet Scrubber Inspections
- D.1.12 Cyclone/Wet Scrubber Failure Detection

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

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SECTION D.2 FACILITY OPERATION CONDITIONS
Liquid Asphalt Storage Tank

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

D.2.1 Volatile Organic Compounds (VOCs) [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

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

D.2.2 Record Keeping Requirements [326 IAC 12][40 CFR 60.110b, Subpart Kb]

Certification Form

Emergency Occurrence Form

Quarterly Deviation and Compliance Monitoring Report Form

Attachment A - ASPHALT PLANT SITE FUGITIVE DUST CONTROL PLAN

SECTION A SOURCE SUMMARY

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

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

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

| | |
|-------------------------|--|
| Authorized Individual: | Robert L. Kelly |
| Source Address: | 366 East U.S. Hwy. 24, Reynolds, Indiana 47980 |
| Mailing Address: | 348 East U.S. Hwy. 24, Reynolds, Indiana 47980 |
| General Source Phone: | 219-984-5144 |
| SIC Code: | 2951 |
| County Location: | White |
| County Location Status: | Attainment for all criteria pollutants |
| Source Status: | Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act |

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

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

- (a) one (1) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 1 distillate oil fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour using a cyclone, and a wet washer (scrubber) for air pollution control, exhausting at one (1) stack identified as Stack SV1;
- (b) one (1) cold aggregate belt conveyor;
- (c) one (1) cold aggregate elevator;
- (d) one (1) hot aggregate enclosed elevator;
- (e) four (4) cold aggregate feeder bins; and
- (f) one (1) liquid asphalt storage tank, identified as T5, constructed in 1988, with a maximum storage capacity of 18,000 gallons, exhausting at one (1) tube/vent, identified as T5.

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) No. 2 distillate oil fired hot oil heater, with a maximum rated capacity of 1.2 MMBtu per hour;
- (b) Paved roads and parking lots with public access;
- (c) Other categories with emissions below insignificant thresholds:
 - (1) three (3) No. 2 distillate fuel oil storage tanks, identified as T1, T2, and T3, constructed in 2000, 1983, and 1988 respectively, each with a maximum storage capacity of 6,000 gallons, exhausting at three (3) tube/vents, identified as T1, T2, and T3 respectively; and
 - (2) one (1) No. 2 distillate fuel oil storage tank, identified as T4, constructed in 1983, with a maximum storage capacity of 1,000 gallons, exhausting at one (1) tube/vent, identified as T4.
 - (3) one (1) propane storage tank, identified as T6, constructed in July 2002, with a maximum storage capacity of 1,000 gallons, exhausting at one (1) tube/vent, identified as T6;
 - (4) one (1) sealcoat storage tank, identified as T7, constructed in August 2001, with a maximum storage capacity of 6,000 gallons, exhausting at one (1) tube/vent, identified as T7; and
 - (5) one (1) gasoline storage tank, identified as T8, constructed in February 2002, with a maximum storage capacity of 250 gallons, exhausting at one (1) tube/vent, identified as T8.

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) for a Federally Enforceable State Operating Permit (FESOP).

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) one (1) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 1 distillate oil fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour using a cyclone, and a wet washer (scrubber) for air pollution control, exhausting at one (1) stack, identified as Stack SV1;
- (b) one (1) cold aggregate belt conveyor;
- (c) one (1) cold aggregate elevator;
- (d) one (1) hot aggregate enclosed elevator; and
- (e) four (4) cold aggregate feeder bins.

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

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2] [40 CFR 52 Subpart P]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the aggregate dryer shall not exceed 46.29 pounds per hour when operating at a process weight rate of 60 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 [P^{0.11}] - 40 \text{ where}$$

E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.1.2 Particulate Matter 10 Microns (PM10) [326 IAC 2-8-4][326 IAC 2-2][40 CFR 52.21]

Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the aggregate mixing and drying operation shall not exceed 0.375 pound of PM-10 per ton of asphalt mix. This is equivalent to a PM-10 emission limit of 22.50 pounds per hour, when based on a maximum throughput of 60 tons of asphalt mix per hour, including both filterable and condensable fractions. Based on 8,760 hours of operation per 12 consecutive month period, this limits PM-10 emissions from the aggregate mixing and drying operation to 98.57 tons per year for a source-wide total potential to emit of less than 100 tons per year. Therefore, compliance with this limit will satisfy 326 IAC 2-8-4, and will render the Part 70 rules (326 IAC 2-7) not applicable. This limit will also render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 40 CFR 52.21 not applicable.

D.1.3 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1][326 IAC 7-2-1]

- (a) Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 27.0 million Btu per hour burner for the aggregate dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.5% when using distillate oil.

(b) Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-5-2][326 IAC 2-8-4]

Any change or modification that results in the use of cutback or emulsified asphalt, must have prior approval from the Office of Air Quality.

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.6 Particulate Matter (PM)

In order to comply with D.1.1 and D.1.2 the cyclone and wet scrubber in series for PM and PM10 control shall be in operation and control emissions from the batch mix dryer/burner at all times that the batch mix dryer/burner is in operation.

D.1.7 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

No later than 180 days after issuance of this permit, in order to demonstrate compliance with Conditions D.1.1 and D.1.2, the Permittee shall perform PM and PM10 testing on the mixing and drying operation utilizing methods as approved by the Commissioner. PM-10 includes filterable and condensable PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.8 Sulfur Dioxide Emissions and Sulfur Content

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 when burning No. 2 distillate fuel oil 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 27 MMBtu per hour burner for the aggregate dryer, 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.

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

D.1.9 Visible Emissions Notations

- (a) Visible emission notations of the batch mix dryer/burner cyclone/wet scrubber stack exhaust, conveyors, and transfer points, shall be performed once per shift during normal daylight operations. 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.

D.1.10 Parametric Monitoring

The Permittee shall record the total static pressure drop and scrubbing liquid (water) flow rate across the wet scrubber used in conjunction with the aggregate mixing and dryer/burner, at least once per shift when aggregate mixing/drying is in. When for any one reading, the pressure drop across the wet scrubber or the water flow rate is outside the normal range established during the initial 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 - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

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

D.1.11 Cyclone/Wet Scrubber Inspections

An inspection shall be performed within the last month of each calendar quarter of the cyclone and wet scrubber controlling the aggregate mixing/drying operations.

D.1.12 Cyclone/Wet Scrubber Failure Detection

In the event that a cyclone or wet scrubber failure has been observed:

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).

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 Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.13 Record Keeping Requirements

(a) To document compliance with Condition D.1.3, and D.1.8 the Permittee shall maintain records in accordance with (1) through (5) below.

- (1) Calendar dates covered in the compliance determination period;
- (2) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (3) Fuel supplier certifications.
- (4) The name of the fuel supplier; and
- (5) 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.

- (b) To document compliance with Condition D.1.9, the Permittee shall maintain records of the once per shift visible emission notations of the batch mix dryer/burner cyclone/wet scrubber stack exhaust, conveyors, and transfer points.
- (c) To document compliance with Condition D.1.10, the Permittee shall maintain weekly records of the once per shift total static pressure drop and the scrubbing liquid (water) flow rate readings during normal operation.
- (d) To document compliance with Condition D.1.11, the Permittee shall maintain records of the results of the inspections required under Condition D.1.11.
- (e) 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

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

Source Background and Description

| | |
|--|--|
| Source Name: | Robert L. Kelly, Inc. |
| Source Location: | 366 East U.S. Highway 24, Reynolds, IN 47980 |
| County: | White |
| SIC Code: | 2951 |
| Operation Permit No.: | F181-13818-03172 |
| Date Issued: | January 6, 2003 |
| First Significant Permit Revision No.: | 181-17470-03172 |
| Permit Reviewer: | SDF |

The Office of Air Quality (OAQ) has reviewed an application from Robert L. Kelly, Inc. relating to the operation of their stationary hot mix asphalt batch plant.

Permitted Emission Units and Pollution Control Equipment

Specifically, Robert L. Kelly, Inc. has submitted an application to:

- (a) change the stack configuration such that all of the emissions from the aggregate dryer are exhausted through Stack SV1 instead of SV1, SV2, and SV3, and
- (b) remove the 40 CFR 60, Subpart I New Source Performance Standard (NSPS) requirements because the equipment was constructed in 1965, prior to the applicable date of June 11, 1973. The application states that there have been no modifications to the equipment of the source which triggers the NSPS.

Robert L. Kelly, Inc. has stated that they incorrectly identified the construction date of the source in the FESOP application as 1977 and that the correct construction date is 1965 which predates the Subpart I applicability date of June 11, 1973. In addition, Robert L. Kelly, Inc. has stated that there have been no modifications to the equipment of the source which would make the source subject to the requirements of Subpart I.

Since the Indiana Department of Environmental Management, Office of Air Quality, has found no information to the contrary, the affected NSPS requirements will be removed and replaced with requirements of 326 IAC 6-3-2 which become applicable with the removal of the NSPS requirements.

Existing Approvals

The source has been operating under FESOP 181-13818-03172, issued on January 6, 2003.

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 submitted by the applicant.

Emission Calculations

(a) Potential to Emit Before Controls:

The proposed changes will not result in an increase in the source potential to emit before controls.

(b) Potential to Emit After Controls:

The proposed changes will not result in an increase in the source potential to emit after controls.

Justification for the Proposed Revision

Removing the NSPS requirements of 40 CFR 60, Subpart I, and replacing them with the requirements of 326 IAC 6-3-2 is a relaxation of an existing limit (7.68 lb PM/hr to 46.29 lb PM/hr) which is not an Administrative Amendment pursuant to 326 IAC 2-8-10 or a Minor Permit Revision pursuant to 326 IAC 2-8-11.1(d).

Therefore, the proposed changes shall be incorporated into the permit via a significant permit revision pursuant to 326 IAC 2-8-11.1(f) which states any change that is not an administrative amendment or a minor permit revision, shall be permitted via a significant permit revision.

County Attainment Status

The source is located in White County.

| Pollutant | Status |
|-----------------|------------|
| PM-10 | attainment |
| PM-2.5 | attainment |
| SO ₂ | attainment |
| NO ₂ | attainment |
| 1-hour ozone | attainment |
| 8-hour ozone | attainment |
| CO | attainment |
| Lead | attainment |

Existing Source Emissions

The following table summarizes the existing source emissions reflecting all limits and standards, and application of all add-on controls. The emissions are obtained from the emission calculations of FESOP 181-13818-03172, issued on January 6, 2003.

| Unit | PM (tons/yr) | PM10 (tons/yr) | SO2 (tons/yr) | NOx (tons/yr) | VOC (tons/yr) | CO (tons/yr) | Worst Case Single HAP (tons/yr) | Comb. HAPs (tons/yr) |
|----------------------|--------------|----------------|---------------|---------------|---------------|--------------|---------------------------------|----------------------|
| Source | 34.07 | 5.02 | 59.05 | 16.91 | 2.24 | 4.22 | <10 | <25 |
| PSD Major Levels | 250 | 250 | 250 | 250 | 250 | 250 | - | - |
| Part 70 Major Levels | - | 100 | 100 | 100 | 100 | 100 | 10 | 25 |

(a) The existing source is not a major PSD stationary source because the source criteria pollutant emissions are, after all applicable limits and standards, less than or equal to the respective major source levels of 250 tons per year, and it is not one of the 28 listed source categories.

- (b) The existing source is not a Title V major stationary source because no criteria pollutant emissions exceed the applicable level of 100 tons per year, and the single and combined HAP emissions do not exceed their respective applicable levels of 10 and 25 tons per year.

Source Emissions After the Proposed Revision

The following table summarizes the source emissions after the proposed changes, reflecting all limits and standards, and application of all add-on controls.

| Unit | PM (tons/yr) | PM10 (tons/yr) | SO2 (tons/yr) | NOx (tons/yr) | VOC (tons/yr) | CO (tons/yr) | Worst Case Single HAP (tons/yr) | Comb. HAPs (tons/yr) |
|--------|-----------------|-------------------|------------------|------------------|------------------|-----------------|---------------------------------------|-------------------------|
| Source | 34.07 | 5.02 | 59.05 | 16.91 | 2.24 | 4.22 | <10 | <25 |

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to this source.

State Rule Applicability - Entire Source

The proposed changes do not trigger any new state rules and do not affect any of the existing state rules.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Particulate Emission Limitations):

Since the requirements of 40 CFR 60, Subpart I are being removed, the aggregate dryer is now subject to the requirements of 326 IAC 6-3-2.

Pursuant to 326 IAC 6-3-2, the allowable PM emission rate from the aggregate dryer for a maximum process rate of 60 tons/hr, is estimated to be 46.29 lb/hr

$$E = [55.0 * P^{0.11}] - 40 = [55.0 * 60^{0.11}] - 40 = 46.29 \text{ lb PM/hr}$$

Where: E = 326 IAC 6-3-2 allowable emission rate (lb/hr)
 P = maximum production rate (60 tons/hr)

The proposed changes do not affect any of the other existing individual facility state rules.

Changes to the Permit

The following are the changes that will be made to the permit. All added information is indicated in bold type. All deleted information is struck-out.

1. Condition A.2:

Condition A.2 shall be changed as follows to reflect the fact that the emissions will be exhausted through Stack SV1 only.

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) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 1 distillate oil fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour using a cyclone, and a wet washer (scrubber) for air pollution control, exhausting at three (3) stacks, identified as SV1, SV2 and SV3 **one (1) stack identified as Stack SV1;**
.....

2. Unit Description of Section D.1:

The unit description of Section D.1 shall be changed as follows to reflect the fact that the emissions will be exhausted through Stack SV1 only.

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

- (a) one (1) aggregate dryer, identified as 03172, with a maximum capacity of 60.0 tons per hour, equipped with one (1) No. 1 distillate oil fired aggregate dryer burner with a maximum rated capacity of 27 million (MM) Btu per hour using a cyclone, and a wet washer (scrubber) for air pollution control, exhausting at three (3) stacks, identified as SV1, SV2 and SV3; **one (1) stack, identified as Stack SV1;**
.....

3. Condition D.1.1:

Condition D.1.1 shall be removed because the requirements of NSPS 40 CFR 60, Subpart I are being removed.

~~D.1.1 — General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A] The provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 60, Subpart I.~~

All subsequent conditions shall be renumbered accordingly.

4. Condition D.1.2:

Condition D.1.2 (now Condition D.1.1) shall be changed as follows to remove the 40 CFR 60, Subpart I requirements, and add the new applicable 326 IAC 6-3-2 requirements.

~~D.1.21 Particulate Matter (PM) [326 IAC 6-3-212] [40 CFR 52 Subpart P] [40 CFR 60.90, Subpart I][326 IAC 2-2][40 CFR 52.21] Pursuant to 326 IAC 12, (40 CFR Part 60.90, Subpart I) “Standards of Performance for Hot Mix Asphalt Facilities”, the particulate matter emissions from the mixing and drying operations shall be limited to 0.04 grains per dry standard cubic foot (gr/dscf) of exhaust air. This is equivalent to a particulate matter emission rate of 7.68 pounds per hour.~~

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the aggregate dryer shall not exceed 46.29 pounds per hour when operating at a process weight rate of 60 tons per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 55.0 [P^{0.11}] - 40$ where $E =$ rate of emission in pounds per hour; and
 $P =$ process weight rate in tons per hour

5. Condition D.1.3:

Condition D.1.3 shall be removed because the requirements of NSPS 40 CFR 60, Subpart I are being removed.

~~D.1.3 Opacity [326 IAC 12] [40 CFR 60.90, Subpart I]~~

~~Pursuant to 326 IAC 12, (40 CFR Part 60.92, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities", the mixing and drying operations shall not discharge or cause the discharge into the atmosphere any gases which exhibit 20% opacity or greater.~~

All subsequent conditions shall be renumbered accordingly.

6. Condition D.1.8:

Condition D.1.8 (now Condition D.1.6) shall be changed as follows to reference the correct conditions.

~~D.1.86~~ Particulate Matter (PM)

In order to comply with D.1.21, and D.1.42 the cyclone and wet scrubber in series for PM and PM10 control shall be in operation and control emissions from the batch mix dryer/burner at all times that the batch mix dryer/burner is in operation.

7. Condition D.1.9:

Condition D.1.9 (now Condition D.1.7) shall be changed as follows to reference the correct conditions and remove the opacity test and other references associated with the NSPS requirements being removed.

~~D.1.97~~ Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

No later than 180 days after issuance of this permit, in order to demonstrate compliance with Conditions **D.1.1 and D.1.2, D.1.3, and D.1.4**, the Permittee shall perform PM, **and** PM10 **and** Opacity testing on the mixing and drying operation utilizing methods per 40 CFR Part 60 Appendix A, Method 5 for PM and methods as approved by the Commissioner for PM-10. PM-10 includes filterable and condensable PM-10. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

8. Condition D.1.15:

Condition D.1.15 (now Condition D.1.13) shall be changed as follows to reference the correct conditions.

~~D.1.153~~ Record Keeping Requirements

(a) To document compliance with Condition D.1.53, and D.1.408 the Permittee shall maintain records in accordance with (1) through (5) below.

- (1) Calendar dates covered in the compliance determination period;
- (2) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

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

- (3) Fuel supplier certifications.
- (4) The name of the fuel supplier; and
- (5) 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.

- (b) To document compliance with Condition D.1.449, the Permittee shall maintain records of the once per shift visible emission notations of the batch mix dryer/burner cyclone/wet scrubber stack exhaust, conveyors, and transfer points.
- (c) To document compliance with Condition D.1.120, the Permittee shall maintain weekly records of the once per shift total static pressure drop and the scrubbing liquid (water) flow rate readings during normal operation.
- (d) To document compliance with Condition D.1.131, the Permittee shall maintain records of the results of the inspections required under Condition D.1.131.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

9. Table of Contents:

The Table of Contents shall be changed to reflect the changes to the conditions of Section D.1.

Conclusion

This batch mix asphalt plant shall be operated according to the limits and standards specified in this proposed significant permit revision (181-17470-03172) and FESOP 181-13818-03172.