



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
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TO: Interested Parties / Applicant
DATE: March 3, 2006
RE: Rogers Group, Inc / 119-21451-05234
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



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

Rogers Group, Inc. - Portable Asphalt Plant #2 Portable

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses new source review requirements and is intended to fulfill the new source review procedures and permit revision requirements pursuant to 326 IAC 2-8-11.1, applicable to those conditions.

Operation Permit No.: F 119-21451-05234	
Original signed by: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: March 3, 2006 Expiration Date: March 3, 2011

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a portable drum hot mix asphalt plant source.

Authorized individual:	Environmental Engineer
Source Address:	Portable
Mailing Address:	421 Great Circle Road, Nashville, TN 37228
General Source Phone:	(615) 780-5781
SIC Code:	2951
Source Location Status:	Portable (initially Owen) Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act

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

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

- (a) One (1) 120 million British thermal units per hour aggregate dryer (C1), exhausting through the baghouse and stack SV1, fired by No. 2 or No. 4 distillate fuel oil, re-refined (waste) oil or natural gas.
- (b) One (1) drum mixer (AP1), exhausting through the baghouse and stack SV1, capacity: 400 tons of hot mix asphalt per hour.
- (c) One (1) liquid asphalt storage tank (MS1), heated by an insignificant 1.0 million British thermal units per hour oil heater (C2), capacity: 30,000 gallons.
- (d) One (1) fuel oil storage tank (MS2), capacity: 20,000 gallons.
- (e) One (1) recycled asphalt pavement system (AP2), consisting of a RAP breaker, screen and two (2) conveyors, capacity: 100 tons per hour.

All facilities were originally constructed in Friendship, Arizona in 1998.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, and fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight (Oil heater C2).
- (b) Paved and unpaved roads and parking lots with public access.

- (c) One (1) insulated additive tank, capacity: 2,000 gallons.
- (d) Fuel oil transfer operations from the tank to the dryer and heater, transferring less than or equal to 1,350 gallons per day.

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

This portable 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]

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

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

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

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

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

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

This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

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

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

B.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 Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

B.10 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. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.11 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 July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may 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.12 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 Preventive Maintenance Plans (PMPs), including the following information on each facility:-
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

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

B.13 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.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) 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.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.14 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 Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.15 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 determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.16 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 shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46204-2251

- (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 on or before the date it is due.
- (2) If IDEM, OAQ, 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 takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

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

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

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

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

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

B.19 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.20 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC13-30-3-1]

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

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

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10] [IC 13-17-3-2]

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

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]

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

B.23 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

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

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2] [326 IAC 2-3]

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

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset);
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.
- (d) 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 April 25, 2003. The plan is included as Attachment A.

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

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

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

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

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

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U.S. EPA.

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

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

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

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

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

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

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

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

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

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.15 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

- (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
 - (2) review of operation and maintenance procedures and records;
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

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

C.17 Emission Statement [326 IAC 2-6] [326 IAC 2-8-3(3)]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source emits oxides of nitrogen into the ambient air equal to or greater than twenty-five (25) tons. The emission statement shall contain, at

a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

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 on or before the date it is due.

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

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

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Portable Source Requirement

C.20 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in serious non-attainment areas for PM₁₀ and Lake County. This determination is based on the requirements of Prevention of Significant Deterioration in 326 IAC 2-2, Emission Offset requirements in 326 IAC 2-3, and 326 IAC 6-1-11.1 and 326 IAC 5-1. Prior to locating in any serious nonattainment area for PM₁₀ or Lake County, the Permittee must submit a request and obtain a permit modification.
- (b) A request to relocate shall be submitted to IDEM, OAQ at least thirty (30) days prior to the intended date of relocation. This submittal shall include the following:
 - (1) A list of governmental officials entitled to receive notice of application to relocate. IC 13-15-3-1
 - (2) A list of adjacent landowners that the Permittee will send written notice to not more than ten (10) days after submission of the request to relocate. IC 13-15-8

The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) A "Relocation Site Approval" letter shall be obtained prior to relocating.
- (d) The Permittee shall also notify the applicable local air pollution control agency when relocating to, or from, one the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Department of Environmental Affairs)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Office of Environmental Services)
 - (6) Vigo County - (Vigo County Air Pollution Control)
- (e) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.
- (f) The Permittee shall request a permit revision and obtain IDEM, OAQ, approval prior to co-locating with any Roger's Group, Incorporated source in Indiana.

Stratospheric Ozone Protection

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) 120 million British thermal units per hour aggregate dryer (C1), exhausting through the baghouse and stack SV1, fired by No. 2 or No. 4 distillate fuel oil, re-refined (waste) oil or natural gas.
- (b) One (1) drum mixer (AP1), exhausting through the baghouse and stack SV1, capacity: 400 tons of hot mix asphalt per hour.
- (c) One (1) liquid asphalt storage tank (MS1), heated by an insignificant 1.0 million British thermal units per hour oil heater (C2), capacity: 30,000 gallons.
- (d) One (1) fuel oil storage tank (MS2), capacity: 20,000 gallons.
- (e) One (1) recycled asphalt pavement system (AP2), consisting of a RAP breaker, screen and two (2) conveyors, capacity: 100 tons per hour.

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

The Permittee shall not process emulsified or cutback asphalt at the portable plant without prior approval from IDEM, OAQ.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2, the Permittee shall not allow the use of asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion, except as used for the following purposes:

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

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-9-6]

Pursuant to 326 IAC 8-9-6(b), the Permittee shall maintain a record and submit to the department a report containing the following information for each of the following vessels:

The one (1) liquid asphalt storage tank (MS1) and the one (1) fuel oil storage tank (MS2)

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.

Pursuant to 326 IAC 8-9-6(a), these records shall be maintained for the life of the vessel.

D.1.4 Nitrogen Oxides (NO_x) [326 IAC 2-8-4] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4, the total use of natural gas and natural gas equivalents by the dryer burner (C1) and the oil heater (C2) shall be limited to no more than 1,042 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 or No. 4 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.126 million cubic feet of natural gas and each gallon of re-refined (waste) oil used shall be considered equal to using 0.084 million cubic feet of natural gas. This will limit NO_x emissions from the use of aggregate dryer burner and oil heater to 99.0 tons per year and the potential to emit NO_x from the entire source to less than 100 tons per year. Thus, the requirements of 326 IAC 2-7, Part 70, and 326 IAC 2-3, Emission Offset, do not apply.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 2-8-4] [326 IAC 7-1.1-1] [326 IAC 7-2-1] [326 IAC 2-2] [326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4, the total use of re-refined (waste) oils and re-refined (waste) oil equivalents by the dryer burner (C1) and the oil heater (C2) shall be limited to no more than 868,421 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.311 gallons of re-refined (waste) oils and each gallon of No. 4 distillate fuel oil used shall be considered equal to using 0.329 gallons of re-refined (waste) oils. The sulfur content of the re-refined (waste) oil shall not exceed two and one tenth percent (2.1%) by weight and the sulfur content of the No. 2 and No. 4 distillate oils shall not exceed one half of a percent (0.5%) by weight, based on a monthly weighted average. This will limit SO₂ emissions from the use of distillate fuel oils or re-refined (waste) oil to 99.0 tons per year and the potential to emit SO₂ from the entire source to less than 100 tons per year. Thus, the requirements of 326 IAC 2-7, Part 70, do not apply. Compliance with this limit shall also ensure that the requirements of 326 IAC 2-2, Prevention of Significant Deterioration (PSD), and 326 IAC 2-3, Emission Offset, are not applicable.
- (b) Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from the aggregate dryer shall not exceed five tenths (0.5) pounds per million British thermal unit heat input when operating on No. 2 distillate oil or No. 4 distillate oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.
- (c) Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from the aggregate dryer shall not exceed one and six-tenths (1.6) pounds per million British thermal unit heat input when operating on re-refined (waste) oil. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average.

D.1.6 Particulate Matter (PM₁₀) [326 IAC 2-8-4] [326 IAC 2-2] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from the aggregate dryer/mixer shall not exceed 0.133 pound per ton of asphalt processed and the amount of asphalt processed shall not exceed 1,000,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to emissions of 66.5 tons per year from the aggregate dryer/mixer, and less than 100 tons per year from the entire source. Therefore, the requirements of 326 IAC 2-7, Part 70, do not apply. Compliance with this limit shall also ensure that the requirements of 326 IAC 2-2, Prevention of Significant Deterioration (PSD), and 326 IAC 2-3, Emission Offset, are not applicable.

D.1.7 Particulate Matter (PM) [326 IAC 2-2] [326 IAC 2-3] [326 IAC 6.5-1 (formerly 6-1-2(a))]

- (a) The potential to emit PM from the aggregate dryer/mixer shall not exceed 0.049 pound per ton of asphalt processed and the amount of asphalt processed shall not exceed 1,000,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to emissions of less than 24.8 tons per year from the aggregate dryer/mixer, and less than 100 tons per year from the entire source. Thus, the requirements of 326 IAC 2-2, PSD, and 326 IAC 2-3, Emission Offset, are not applicable.

- (b) Pursuant to 326 IAC 6.5-1 (formerly 6-1-2(a)), the PM emissions from the aggregate dryer/mixer at the portable plant shall not exceed 0.07 gram per dry standard cubic meter (0.03 grain per dry standard cubic foot). Compliance with this limit will also ensure that the plant is in compliance with the emission limitation of 90 milligrams per dry standard cubic meter (0.04 grain per dry standard cubic foot) from 40 CFR 60.92 and 326 IAC 12-1.

D.1.8 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 aggregate dryer and drum mixer and their control device.

Compliance Determination Requirements

D.1.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

No later than October 8, 2009, in order to demonstrate compliance with Conditions D.1.6 and D.1.7, the Permittee shall perform PM and PM₁₀ testing of the aggregate dryer/mixer utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensable PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.10 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 British thermal unit heat input when operating on No. 2 distillate oil or No. 4 distillate oil and one and six-tenths (1.6) pounds per million British thermal unit heat input when operating on re-refined (waste) 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 aggregate dryer and drum mixer using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.
- (c) In order to demonstrate compliance with Condition D.1.5, the Permittee shall demonstrate that weight percent sulfur dioxide in the fuels used does not exceed one half of a percent (0.5%) by weight when operating on No. 2 distillate oil or No. 4 distillate oil and two and one-tenth percent (2.1%) when operating on reused (waste) oil, using the methods described in (a) of this condition.

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

D.1.11 Particulate Control

- (a) In order to comply with Conditions D.1.6 and D.1.7, the baghouse for the aggregate dryer/mixer shall be in operation and control emissions from the aggregate dryer/mixer at all times when the aggregate dryer/mixer is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the conveyors, material transfer points and aggregate dryer/mixer stack (SV1) exhaust shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.13 Baghouse Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer and drum mixer at least once per day when the aggregate dryer and drum mixer are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. 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 - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) The Permittee shall record the inlet temperature to the baghouse used in conjunction with the aggregate dryer and drum mixer, at least once per day when the aggregate dryer and drum mixer are in operation. When for any one reading, the inlet temperature to the baghouse is outside the normal range of 300 and 400 degrees Fahrenheit or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. This is required to prevent overheating of the bags and to prevent low temperatures from mudding up the bags. A temperature 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 - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

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

D.1.14 Broken or Failed Bag Detection

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

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

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

D.1.15 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain records in accordance with (1) through (4) 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, 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:

 - (3) The name of the fuel supplier; and
 - (4) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Conditions D.1.4 and D.1.5, the Permittee shall keep records of the amount of each fuel used at the aggregate dryer burner (C1) and the oil heater (C2). Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (c) To document compliance with Condition D.1.12, the Permittee shall maintain daily records of the visible emission notations of the conveyors, material transfer points and aggregate dryer and drum mixer stack (SV1) exhaust.

- (d) To document compliance with Condition D.1.13, the Permittee shall maintain the following:
 - (1) Records of the pressure drop across the baghouse during normal operation once per day.
 - (2) Records of the inlet temperature at the baghouse during normal operation once per day.
- (e) To document compliance with Conditions D.1.6 and D.1.7(a), the Permittee shall keep records of the amount of asphalt processed through the aggregate dryer/mixer. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.16 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.4, D.1.5(a), D.1.6 and D.1.7(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

D.1.17 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 asphalt plant described in this section except when otherwise specified in 40 CFR 60 Subpart I.

D.1.18 NSPS Subpart I Requirements [40 CFR Part 60, Subpart I] [326 IAC 12-1]

Pursuant to CFR Part 60, Subpart I, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart I, which are incorporated by reference as 326 IAC 12-1 for the asphalt plant as specified as follows. Pursuant to 40 CFR 60.90(a), the affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems.

§ 60.91 Definitions

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

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

§ 60.92 Standard for particulate matter

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

- (1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).
- (2) Exhibit 20 percent opacity, or greater.

§ 60.93 Test methods and procedures

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

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

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

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

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

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

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
Source Address: Portable
Mailing Address: 421 Great Circle Road, Nashville, TN 37228
FESOP No.: F 119-21451-05234

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
Indianapolis, Indiana 46204-2251
Phone: 317-233-5674
Fax: 317-233-5967**

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

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
Source Address: Portable
Mailing Address: 421 Great Circle Road, Nashville, TN 37228
FESOP No.: F 119-21451-05234

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• 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) working 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
 COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
 Source Address: Portable
 Mailing Address: 421 Great Circle Road, Nashville, TN 37228
 FESOP No.: F 119-21451-05234
 Facilities: One (1) aggregate dryer (C1) and oil heater (C2)
 Parameter: Fuel usage (NO_x emissions)
 Limit: No more than 1,042 million cubic feet of natural gas and equivalents per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 or No. 4 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.126 million cubic feet of natural gas and each gallon of re-refined (waste) oil used shall be considered equal to using 0.084 million cubic feet of natural gas

YEAR: _____

Month	Equivalent Natural Gas Usage (mmcf)	Equivalent Natural Gas Usage (mmcf)	Equivalent Natural Gas Usage (mmcf)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
 Source Address: Portable
 Mailing Address: 421 Great Circle Road, Nashville, TN 37228
 FESOP No.: F 119-21451-05234
 Facilities: One (1) aggregate dryer (C1) and oil heater (C2)
 Parameter: Fuel Usage (SO₂ emissions)
 Limit: No more than 868,421 gallons of re-refined (waste) oils and equivalents per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.311 gallons of re-refined (waste) oils and each gallon of No. 4 distillate fuel oil used shall be considered equal to using 0.329 gallons of re-refined (waste) oils.

YEAR: _____

Month	Equivalent Re-refined (Waste) Oil Usage (gallons)	Equivalent Re-refined (Waste) Oil Usage (gallons)	Equivalent Re-refined (Waste) Oil Usage (gallons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
Source Address: Portable
Mailing Address: 421 Great Circle Road, Nashville, TN 37228
FESOP No.: F 119-21451-05234
Facility: One (1) aggregate dryer/mixer
Parameter: Asphalt processed
Limit: One million (1,000,000) tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

YEAR: _____

Month	Asphalt processed (tons)	Asphalt processed (tons)	Asphalt processed (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

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

Source Name: Rogers Group, Inc. - Portable Asphalt Plant #2
 Source Address: Portable
 Mailing Address: 421 Great Circle Road, Nashville, TN 37228
 FESOP No.: F 119-21451-05234

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

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

Source Background and Description

Source Name:	Rogers Group, Inc. - Portable Asphalt Plant #2
Source Location:	Portable (State Highway 46 West, Spencer, IN 47460 at the time of approval)
County:	Portable (Currently Owen County)
SIC Code:	2951
Operation Permit No.:	F 119-17136-05234
Operation Permit Issuance Date:	July 2, 2003
Permit Renewal No.:	F 119-21451-05234
Permit Reviewer:	CarrieAnn Paukowits

The Office of Air Quality (OAQ) has reviewed a FESOP Renewal application from Rogers Group, Inc. - Portable Asphalt Plant #2 relating to the operation of a portable drum hot mix asphalt plant.

Source Definition

This portable source is currently co-located with the Rogers Group, Inc. - Owen Valley Quarry on State Highway 46 West, Spencer, Indiana, in Owen County. A Source Specific Operating Agreement (SSOA) for Rogers Group, Inc. - Owen Valley Quarry was issued on September 16, 1996.

In order to consider both plants as one single source, all three of the following criteria must be met:

- (a) The plants must have common ownership/control;
- (b) The plants must have the same SIC code; and
- (c) The plants must be located on contiguous or adjacent properties.

These plants are located on contiguous properties and have a common owner. However, the plants have different primary SIC Codes (29 for the asphalt plant and 14 for the quarry). The quarry sends less than fifty percent (50%) of its output to the asphalt plant. In addition, this portable asphalt plant has been previously located at locations where there is no quarry. Therefore, the quarry is not a support facility of the asphalt plant. Based on this evaluation, these plants will not be considered one (1) source, as defined by 326 IAC 2-7-1(22).

Permitted Emission Units and Pollution Control Equipment

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

All facilities were originally constructed in Friendship, Arizona in 1998.

- (a) One (1) 120 million British thermal units per hour aggregate dryer (C1), exhausting through the baghouse and stack SV1, fired by No. 2 or No. 4 distillate fuel oil, re-refined (waste) oil or natural gas.
- (b) One (1) drum mixer (AP1), exhausting through the baghouse and stack SV1, capacity: 400 tons of hot mix asphalt per hour.

- (c) One (1) liquid asphalt storage tank (MS1), heated by an insignificant 1.0 million British thermal units per hour oil heater (C2), capacity: 30,000 gallons.
- (d) One (1) fuel oil storage tank (MS2), capacity: 20,000 gallons.
- (e) One (1) recycled asphalt pavement system (AP2), consisting of a RAP breaker, screen and two (2) conveyors, capacity: 100 tons per hour.

Unpermitted Emission Units and Pollution Control Equipment

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

New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval

There are no proposed emission units during this review process.

Insignificant Activities

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, and fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight (Oil heater C2).
- (b) Paved and unpaved roads and parking lots with public access.
- (c) One (1) insulated additive tank, capacity: 2,000 gallons.
- (d) Fuel oil transfer operations from the tank to the dryer and heater, transferring less than or equal to 1,350 gallons per day.

Existing Approvals

The source has been operating under the previous FESOP 119-17136-05234 issued on July 2, 2003, with an expiration date of July 2, 2008, and the following amendments and revisions:

- (a) Relocation letter 119-18564-05234, issued on March 9, 2004;
- (b) Administrative Amendment 119-20529-05234, issued on June 14, 2005;
- (c) Relocation letter 119-21449-05234, issued on June 30, 2005; and
- (d) Administrative Amendment 119-21197-05234, issued on July 14, 2005.

All terms and conditions from previous approvals were either incorporated as originally stated, revised or deleted by this FESOP. The following terms and conditions have been revised:

- (a) Administrative Amendment 119-21197-05234, issued on July 14, 2005

Condition D.1.8: Pursuant to 326 IAC 2-8-4, the PM₁₀ emissions from the aggregate dryer/mixer shall not exceed 0.135 pound per ton of asphalt processed and the amount of asphalt processed shall not exceed 1,000,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to less

than 67.6 tons per year. This will limit the total source potential to emit PM₁₀ to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7, Part 70, do not apply. Compliance with this limit shall also ensure that the requirements of 326 IAC 2-2, Prevention of Significant Deterioration (PSD), and 326 IAC 2-3, Emission Offset, are not applicable.

Reason revised: Due to changes in the way emissions from unpaved roads are calculated, the PM₁₀ emissions from the aggregate dryer/mixer must be limited to no more than 0.133 pound per ton of asphalt processed in order to limit PM₁₀ emissions from the entire source to less than one hundred (100) tons per year.

(b) FESOP 119-17136-05234 issued on July 2, 2003

Condition D.1.15: Visible emission notations of the conveyors, material transfer points and aggregate dryer/ mixer stack (SV1) exhaust 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. 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 these units 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.

Condition D.1.16: The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the aggregate dryer and drum mixer, at least once per shift when the aggregate dryer and drum mixer are in operation when venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 5.0 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 -Failure to Take Response. 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 Permittee shall record the inlet temperature to the baghouse used in conjunction with the aggregate dryer and drum mixer, at least once per shift when the aggregate dryer and drum mixer are in operation when venting to the atmosphere. When for any one reading, the inlet temperature to the baghouse is outside the normal range of 300 and 400 degrees Fahrenheit or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Failure to Take Response. This is required to prevent overheating of the bags and to prevent low temperatures from mudding up the bags. A temperature 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 and temperature shall comply with Section C - Pressure Gauge and Other Instruments Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

Reason revised: IDEM has determined that once per day visible emission notations and once per day parametric monitoring are generally sufficient to ensure proper operation of the process and control device. IDEM has also determined that once per day monitoring is sufficient to satisfy the requirements of the FESOP rules at 326 IAC 2-8-4 and 326 IAC 2-8-5. Therefore, the frequency of monitoring is being decreased from once per shift to once per day.

- (c) FESOP 119-17136-05234 issued on July 2, 2003

Condition D.1.18: In the event that bag failure has been observed:

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.

For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then 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).

Reason revised: The first paragraph of the Broken or Failed Baghouse condition has been deleted. For multi-compartment baghouses, the permit will not specify what actions the Permittee needs to take in response to a broken bag. However, a requirement has been added to the permit, requiring the Permittee to notify IDEM if a broken bag is detected and the control device will not be repaired for more than ten (10) days. This notification allows IDEM to take any appropriate actions if the emission unit will continue to operate for a long period of time while the control device is not operating in optimum condition. The second paragraph of this condition has been revised for those processes that operate in batch mode. The condition required an emission unit to be shut down immediately in case of baghouse failure. However, IDEM is aware there can be safety issues with shutting down a process in the middle of a batch. IDEM also realizes that in some situations, shutting down an emissions unit mid-process can cause equipment damage. Therefore, since it is not always possible to shut down a process with material remaining in the equipment, IDEM has revised the condition to state that in the case of baghouse failure, the feed to the process must be shut off immediately, and the process shall be shut down as soon as practicable.

- (d) FESOP 119-17136-05234 issued on July 2, 2003

Condition C.14: Pressure Gauge and Other Instrument Specifications

Reason Revised: IDEM realizes that these specifications can only be practically applied to analog units, and has therefore clarified the condition to state that the condition only

applies to analog units. Upon further review, IDEM has also determined that the accuracy of the instruments is not nearly as important as whether the instrument has a range that is appropriate for the normal expected reading of the parameter. Therefore, the accuracy requirements have been removed from the condition.

The following terms and conditions have not been incorporated into the permit:

(a) FESOP 119-17136-05234 issued on July 2, 2003

Condition D.1.14: The re-refined (waste) oil burned in the aggregate dryer 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 receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification), compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and 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.

Reason not incorporated: IDEM has determined that the condition does not need to be included in the permit because this requirement is regulated by another agency.

(b) FESOP 119-17136-05234 issued on July 2, 2003

Condition D.1.17: An inspection shall be performed each calendar quarter of all bags controlling the aggregate dryer and drum mixer when venting to the atmosphere. A bag-house inspection shall be performed within three (3) months of redirecting vents to the atmosphere and every three (3) months thereafter. Inspections are optional when venting to the indoors. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

Reason not incorporated: IDEM has determined that it is the Permittee's responsibility to include routine control device inspection requirements in the applicable preventive maintenance plan. Since the Permittee is in the best position to determine the appropriate frequency of control device inspections and the details regarding which components of the control device should be inspected, the conditions requiring control device inspections have been removed from the permit. In addition, the requirement to keep records of the inspections has been removed.

(c) FESOP 119-17136-05234 issued on July 2, 2003

Condition C.16: Compliance Response Plan - Preparation, Implementation, Records, and Reports

Reason not incorporated: IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated.

(d) FESOP 119-17136-05234 issued on July 2, 2003

Condition D.1.20: The storage tanks identified as MS1 and MS2 shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.116b only, Subpart Kb). 40 CFR Part 60.116b requires the permittee to maintain accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tank.

Reason not incorporated: On October 15, 2003, revisions to 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, became effective. These revisions were incorporated into the Indiana state rules on October 14, 2005. According to the revised rule, the tanks are not subject to 40 CFR 60, Subpart Kb.

(e) All construction conditions from all previously issued permits.

Reason not incorporated: All facilities previously permitted have already been constructed; therefore, the construction conditions are no longer necessary as part of the operating permit. Any facilities that were previously permitted but have not yet been constructed would need new pre-construction approval before beginning construction.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

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

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

An administratively complete FESOP renewal application for the purposes of this review was received on June 17, 2005. Additional information was received on December 13, 2005.

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

Emission Calculations

See Appendix A (13 pages) of this document for detailed emission calculations.

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	49,402
PM ₁₀	11,553
SO ₂	811
VOC	10.9
CO	46.9
NO _x	100

HAPs	Unrestricted Potential Emissions (tons/yr)
Benzene, Ethylbenzene, Methyl Chloroform, Naphthalene, Toluene, Xylene, Arsenic, Cadmium, Chromium, Manganese, Mercury and Nickel	Less than 10, each
Formaldehyde (Worst-case Individual)	5.43
Lead	0.006
Total	13.4

- (a) The unrestricted potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀, SO₂ and NO_x are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7. The source was issued a FESOP because the source limited its emissions below the Title V levels.
- (b) Fugitive Emissions
 Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Since unpaved roads are not an affected facility of the applicable NSPS (40 CFR 60.90, Subpart I), fugitive PM emissions resulting from unpaved roads are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

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

Process/emission unit	Potential to Emit After Issuance (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Aggregate dryer and drum mixer	less than 24.8	66.5	99.0 (oil, including insignificant oil heater) 0.318 (natural gas)	3.70	44.5	99.0	Worst-case single 5.43 (Formaldehyde); Total 13.3
Conveying/handling, Screening, Storage and Loadout	61.2	6.08	-	-	-	-	Worst case single less than 0.109; Total 0.109
Recycled asphalt pavement operations	12.8	4.66	-	-	-	-	-
Insignificant Activities	72.7	22.3	included in aggregate dryer limit	1.00	included with aggregate dryer	included with aggregate dryer	negligible
Total PTE After Issuance	172 (less than 100 without unpaved roads)	Less than 100	less than 100	4.70	44.5	less than 100	Single less than 10 Total less than 25

County Attainment Status

The source is currently located in Owen County. The source can operate in all areas of the state except any county classified as serious nonattainment for PM₁₀. Also, this source cannot relocate to Lake County without prior IDEM, OAQ, approval.

Pollutant	Status
PM _{2.5}	attainment
PM ₁₀	attainment
SO ₂	attainment
NO ₂	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Owen County has been designated as attainment or unclassifiable for ozone. However, since this is a portable source, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2, and Emission Offset, 326 IAC 2-3.

- (b) Owen County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. Since this is a portable source, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2, and Emission Offset, 326 IAC 2-3.
- (c) Owen County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. However, since this is a portable source, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2, and Emission Offset, 326 IAC 2-3.

Portable Source

- (a) Initial Location
This is a portable source and its initial location is State Highway 46 West, Spencer, Indiana, in Owen County.
- (b) PSD and Emission Offset Requirements
The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD) 326 IAC 2-2 and Emission Offset 326 IAC 2-3.
- (c) Fugitive Emissions
Although this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Since unpaved roads are not an affected facility of the applicable NSPS (40 CFR 60.90, Subpart I), fugitive PM emissions resulting from unpaved roads are not counted toward determination of PSD and Emission Offset applicability.
- (d) The Permittee must request a permit revision and obtain IDEM, OAQ, approval prior to co-locating with any Roger's Group, Incorporated source in Indiana.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	172 (< 100 without fugitive)
PM ₁₀	< 100
SO ₂	< 100
VOC	4.70
CO	44.5
NO _x	< 100

Pollutant	Emissions (tons/yr)
Single HAP (Formaldehyde)	5.43
Combination HAPs	13.4

- (a) This existing source is not a major portable source because no pollutant is emitted at a rate of one hundred (100) tons per year or greater.
- (b) The source must obtain IDEM, OAQ, approval before relocating to any county classified as serious nonattainment for PM₁₀.

Federal Rule Applicability

- (a) This source is a hot mix asphalt plant initially constructed after June 11, 1973. Therefore, it is subject to the New Source Performance Standards of Performance for Hot Mix Asphalt Facilities, 40 CFR 60.90, Subpart I. The processes currently existing at this source subject to the rule include dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems. Non applicable portions of the NSPS will not be included in the permit. This source is subject to all portions of Subpart I, which are:

- (1) 40 CFR 60.90
- (2) 40 CFR 60.91
- (3) 40 CFR 60.92
- (4) 40 CFR 60.93

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.

- (b) On October 15, 2003, revisions to 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, became effective. These revisions were incorporated into the Indiana state rules on October 14, 2005.

- (1) Pursuant to 40 CFR 60.110b, this subpart does not apply to storage vessels with a capacity greater than or equal to 151 cubic meters storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) or with a capacity greater than or equal to seventy-five (75) cubic meters but less than 151 cubic meters storing a liquid with a maximum true vapor pressure less than 15.0 kPa. The one (1) fuel oil storage tank (MS2) and one (1) liquid asphalt storage tank (MS1), both constructed after July 23, 1984, each have a capacity greater than seventy-five (75) cubic meters, but less than 151 cubic meters and store a liquid with a maximum true vapor pressure is less than 15.0 kiloPascals. Therefore, the requirements of 40 CFR 60, Subpart Kb, are not included in the permit for the two (2) tanks, identified as MS1 and MS2.

- (2) The one (1) insulated additive tank, constructed after July 23, 1984, has a storage capacity of less than seventy-five (75) cubic meters. Therefore, the requirements of 40 CFR 60, Subpart Kb, are not included in the permit for the one (1) insulated additive tank.
- (c) The one (1) recycled asphalt pavement (RAP) system at this source follows in the plant process a facility that is subject to the provisions of Subpart I of 40 CFR Part 60. Therefore, pursuant to 40 CFR 60.670(b), the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart OOO), are not included in the permit for this source.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14, 326 IAC 20, 40 CFR Part 61 and 40 CFR Part 63) included in this permit.

State Rule Applicability – Entire Source

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

The potentials to emit PM, PM₁₀ and SO₂ from this new source are greater than 250 tons per year before controls and limitations. Compliance with the limitations that make this source a minor source pursuant to 326 IAC 2-3, Emission Offset, will also make this source a minor source pursuant to 326 IAC 2-2, PSD.

326 IAC 2-3 (Emission Offset)

- (a) Pursuant to FESOP 119-17136-05234 issued on July 2, 2003, and Administrative Amendment 119-21197-05234, issued on July 14, 2005, the PM emissions from the aggregate dryer/mixer shall not exceed 0.049 pound per ton of asphalt processed and the amount of asphalt processed shall not exceed 1,000,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to emissions of less than 24.8 tons per year from the aggregate dryer/mixer, and less than 100 tons per year from the entire source (see the "Potential to Emit After Issuance" table in this document). Thus, the requirements of 326 IAC 2-2, PSD, and 326 IAC 2-3, Emission Offset, are not applicable. During the test conducted on October 8, 2004, the PM emissions from the aggregate dryer/mixer were 0.016 pounds per ton. Therefore, the aggregate dryer/mixer complies with this limit.
- (b) The potential to emit PM₁₀ is limited to less than one hundred (100) tons per year to comply with 326 IAC 2-8-4, FESOP. Compliance with that limit will also ensure that this source is a minor source of PM₁₀ pursuant to 326 IAC 2-3, Emission Offset.
- (c) The potential to emit SO₂ is limited to less than one hundred (100) tons per year to comply with 326 IAC 2-8-4, FESOP. Compliance with that limit will also ensure that this source is a minor source of SO₂ pursuant to 326 IAC 2-3, Emission Offset.
- (d) The potential to emit NO_x is limited to less than one hundred (100) tons per year to comply with 326 IAC 2-8-4, FESOP. Compliance with that limit will also ensure that this source is a minor source of NO_x pursuant to 326 IAC 2-3, Emission Offset.
- (e) The owner or operator shall not process emulsified or cutback asphalt at the portable plant unless proper approval has been obtained from IDEM, OAQ. Therefore, the unrestricted potential to emit VOC from the asphalt plant is less than 100 tons per year and there are no limits required under 326 IAC 2-3, Emission Offset, for VOC emissions.

326 IAC 2-4.1-1 (New Source Toxics Control)

The potential to emit each individual HAP is less than ten (10) tons per year, and the potential to emit any combination of HAPs is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 2-4.1-1 are still not applicable.

326 IAC 2-8 (FESOP)

Pursuant to this rule, the amount of PM₁₀, SO₂ and NO_x emitted shall be limited to less than one hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-7, do not apply.

- (a) The PM₁₀ emissions from the aggregate dryer/mixer shall not exceed 0.133 pound per ton of asphalt processed and the amount of asphalt processed shall not exceed 1,000,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This is equivalent to PM₁₀ emissions of 66.5 tons per year from the aggregate dryer/mixer, and less than 100 tons per year from the entire source (see the "Potential to Emit After Issuance" table in this document). Therefore, the requirements of 326 IAC 2-7, Part 70, are still not applicable. Compliance with this limit shall also ensure that the requirements of 326 IAC 2-2, Prevention of Significant Deterioration (PSD), and 326 IAC 2-3, Emission Offset, are still not applicable. During the test conducted on October 8, 2004, the PM₁₀ emissions from the aggregate dryer/mixer were 0.0189 pounds per ton. Therefore, the aggregate dryer/mixer can comply with this limit.
- (b) The total use of re-refined (waste) oils and re-refined (waste) oil equivalents by the dryer burner (C1) and oil heater (C2) shall be limited to no more than 868,421 gallons per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.311 gallons of re-refined (waste) oils and each gallon of No. 4 distillate fuel oil used shall be considered equal to using 0.329 gallons of re-refined (waste) oils. The sulfur content of the re-refined (waste) oil shall not exceed two and one tenth percent (2.1%) by weight and the sulfur content of the No. 2 and No. 4 distillate oils shall not exceed one half of a percent (0.5%) by weight, based on a monthly weighted average. This will limit SO₂ emissions from the use of distillate fuel oils or re-refined (waste) oil to 99.0 tons per year and the potential to emit SO₂ from the entire source to less than 100 tons per year. The potential to emit SO₂ from natural gas usage is only 0.318 tons per year. Thus, limiting the potential to emit SO₂ from distillate oils or re-refined (waste) oil to 99.0 tons per year limits the potential to emit SO₂ from the entire source to less than 100 tons per year and no equivalency is needed for natural gas usage. Therefore, the requirements of 326 IAC 2-7, Part 70, do not apply.
- (c) The total use of natural gas and natural gas equivalents by the dryer burner (C1) and the oil heater (C2) shall be limited to no more than 1,042 million cubic feet per twelve (12) consecutive month period, with compliance determined at the end of each month. Each gallon of No. 2 or No. 4 distillate fuel oil used at the dryer burner or hot oil heater shall be considered equal to using 0.126 million cubic feet of natural gas and each gallon of re-refined (waste) oil used shall be considered equal to using 0.084 million cubic feet of natural gas. This will limit NO_x emissions from the dryer burner to 99.0 tons per year and the potential to emit NO_x from the entire source to less than 100 tons per year. Thus, the requirements of 326 IAC 2-7, Part 70, do not apply.
- (d) The owner or operator shall not process emulsified or cutback asphalt at this source unless proper approval has been obtained from IDEM, OAQ. Therefore, the potential to emit VOC is less than 100 tons per year and there are no 326 IAC 2-8-4 limits required for VOC.

- (e) This source shall not re-locate to any county that is serious nonattainment for PM₁₀ without prior IDEM, OAQ, approval. There are currently no serious nonattainment counties in Indiana for PM₁₀.

326 IAC 2-6 (Emission Reporting)

Since this is a portable source which may be located in Porter County and has the potential to emit greater than twenty-five (25) tons per year (tpy) of NO_x, this source is subject to 326 IAC 2-6 (Emission Reporting). In accordance with the compliance schedule in 326 IAC 2-6-3, an emission statement must be submitted by July 1 if the source emits NO_x into the ambient air equal to or greater than twenty-five (25) tons during the previous calendar year and the source was located in Porter County during that year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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), opacity shall meet the following, unless otherwise stated in the permit:

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

This source shall not re-locate to Lake County without prior IDEM, OAQ, approval.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires the source 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 Matter Emission Limitations)

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on April 25, 2003. The plan consists of:

- (a) Cleaning paved roads and parking lots by sweeping on an as needed basis (monthly minimum). Power brooming paved roads and parking lots while wet.
- (b) Paving unpaved roads and parking lots with asphalt should fugitive emissions become excessive at the site. Treating with water as needed. Double chipping and sealing the road surface and maintain on an as needed basis.
- (c) Maintaining minimum size and number of stock piles of aggregate. Treating around the stockpile with water as needed. Treating the stockpiles with water as needed.
- (d) Applying water at the feed and the intermediate points of the conveyers as needed.

- (e) Minimizing the vehicular distance between transfer points of aggregates. Enclosing the transfer points if warranted. Applying water to the transfer points on an as-needed basis.
- (f) Tarping aggregate hauling vehicles. Maintaining vehicle bodies to prevent leakage. Spraying aggregates with water during transport. Maintaining a 10 mile per hour speed limit in the yard.
- (g) Reducing free fall distance during loading and unloading. Reducing the rate of discharge of the aggregate. Spraying the aggregate with water on an as-needed basis.

State Rule Applicability - Individual Facilities

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

Pursuant to 326 IAC 6.5-1-2(a) (formerly 326 IAC 6-1-2(a)), particulate matter (PM) emissions from the aggregate dryer/mixer at the portable plant shall be limited to 0.07 gram per dry standard cubic meter (0.03 grain per dry standard cubic foot).

326 IAC 6.8-1 (Particulate Matter Limitations For Lake County)

Relocating this source to Lake County would make the requirements of 326 IAC 6.8-1 applicable. This source is not permitted to relocate to Lake County without prior IDEM, OAQ, approval.

326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)

The potential to emit particulate from this plant is limited by 326 IAC 12, 40 CFR Part 60.90, Subpart I. Therefore, pursuant to 326 IAC 6-3-1(c)(5), the limitations of 326 IAC 6-3 are not applicable.

326 IAC 7 (Sulfur Dioxide Rules)

The potential to emit SO₂ from the dryer burner is twenty-five (25) tons per year or more. Therefore, the requirements of 326 IAC 7-1.1 are applicable.

- (a) When operating on No. 2 or No. 4 distillate oil, the sulfur dioxide emissions shall be limited to five-tenths (0.5) pound per million British thermal units. Compliance with this limitation shall be accomplished by limiting the weight percent sulfur in the No. 2 distillate oil and the No. 4 distillate oil to no more than one half of one percent (0.5%).
- (b) When operating on re-refined (waste) oil, the sulfur dioxide emissions shall be limited to one and six tenths (1.6) pounds per million British thermal units. Compliance with this limitation shall be accomplished by limiting the weight percent sulfur in the re-refined (waste) oil to no more than two and one-tenth percent (2.1%).

326 IAC 8-5-2 (Asphalt paving rules)

Pursuant to 326 IAC 8-5-1, the requirements of this rule are applicable to the source because it is a new source, constructed after January 1, 1980, including asphalt paving operations. Pursuant to 326 IAC 8-5-2, the Permittee shall not allow the use of asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion, except as used for the following purposes:

- (a) penetrating prime coating;
- (b) stockpile storage mix; and

- (c) application during the months of November, December, January, February, and March.

The owner or operator will not process emulsified or cutback asphalt at this source unless proper approval has been obtained from IDEM, OAQ. Therefore, this source will comply with this rule.

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

- (a) The one (1) liquid asphalt storage tank (MS1) and one (1) fuel oil storage tank (MS2), at this portable source each have a capacity less than 39,000 gallons. Therefore, pursuant to 326 IAC 8-9-1(b), the tanks are subject to 326 IAC 8-9-6(a) and 326 IAC 8-9-6(b).

Pursuant to 326 IAC 8-9-6(b), the Permittee shall maintain a record and submit to the department a report containing the following information for each vessel:

- (1) The vessel identification number.
- (2) The vessel dimensions.
- (3) The vessel capacity.

Pursuant to 326 IAC 8-9-6(a), these records shall be maintained for the life of the vessel.

- (b) The one (1) insulated additive tank is not subject to 326 IAC 8-9 because it is not a stationary vessel in Clark, Floyd, Lake or Porter County.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

The potential to emit NO_x is limited to less than one hundred (100) tons per year and there is an applicable NSPS. Therefore, the requirements of 326 IAC 10-1 are not applicable.

326 IAC 12-1 (New Source Performance Standards)

- (a) The hot mix asphalt plant will be required to comply with the requirements of 40 CFR 60.90, Subpart I, Standards of Performance for Hot Mix Asphalt Facilities, as described in the "Federal Rule Applicability" section of this TSD.
- (b) The one (1) fuel oil storage tank (MS2) and one (1) liquid asphalt storage tank (MS1), both constructed after July 23, 1984, each have a capacity greater than seventy-five (75) cubic meters, but less than 151 cubic meters and store a liquid with a maximum true vapor pressure is less than 15.0 kiloPascals. Therefore, the requirements of 40 CFR 60, Subpart Kb, are not applicable.
- (c) The one (1) insulated additive tank, constructed after July 23, 1984, is not subject to the requirements of 40 CFR Part 60, Subpart Kb, because it has a storage capacity of less than seventy-five (75) cubic meters.

Testing Requirements

- (a) In order to demonstrate compliance with the PM limitations of 60 CFR 60, Subpart I, the PM limitations that make this source a minor source pursuant to 326 IAC 2-2, PSD, and 326 IAC 2-3, Emission Offset, and the PM₁₀ limitations of 326 IAC 2-8-4, which also make the source a minor source pursuant to 326 IAC 2-2, PSD, and 326 IAC 2-3, Emission Offset, the Permittee shall perform PM and PM₁₀ testing of the aggregate dryer/mixer utilizing methods approved by the Commissioner once every five (5) years from the date of this valid compliance demonstration. The latest test was conducted on October 8, 2004.

Therefore, the next test is due on or before October 8, 2009. PM₁₀ includes filterable and condensable PM₁₀.

- (b) Pursuant to 40 CFR 60.93, compliance with the PM standards in 40 CFR 60.92 shall be determined by using Method 5 to determine particulate concentration and Method 9 to determine opacity. When determining the particulate concentration, the sampling time and sampling volume for each run shall be at least sixty (60) minutes and 0.90 dry standard cubic meter (31.8 dry standard cubic feet).

Compliance Requirements

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

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

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

The asphalt plant has applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of the conveyors, material transfer points and aggregate dryer/mixer stack (SV1) exhaust shall be performed once per day during normal daylight operations. A trained employee shall 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. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the aggregate dryer and drum mixer at least once per day when the aggregate dryer and drum mixer are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 3.0 and 5.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. 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 - Response to Excursions or Exceedances, shall be considered a deviation from this permit.

- (c) The Permittee shall record the inlet temperature to the baghouse used in conjunction with the aggregate dryer and drum mixer, at least once per day when the aggregate dryer and drum mixer are in operation. When for any one reading, the inlet temperature to the baghouse is outside the normal range of 300 and 400 degrees Fahrenheit or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. This is required to prevent overheating of the bags and to prevent low temperatures from mudding up the bags. A temperature 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 - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (d) The instruments used for determining the pressure and temperature shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.
- (e) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (f) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (g) Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

These monitoring conditions are necessary because the baghouse for the aggregate dryer/mixer and the conveyors and transfer points must operate properly to ensure compliance with 326 IAC 6.5-1 (Particulate Matter Limitations Except Lake County), 326 IAC 2-8 (FESOP), 326 IAC 12 and 40 CFR 60.90, Subpart I, and to make the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

Conclusion

The operation of this portable drum hot mix asphalt plant shall be subject to the conditions of the **FESOP 119-21451-05234**.

Appendix A: Emission Calculations

Company Name: Rogers Group, Inc. - Portable Asphalt Plant #2
 Plant Location: Portable
 County: Portable
 FESOP Renewal: F 119-21451-05234
 Application Date: June 17, 2005
 Permit Reviewer: CarrieAnn Paukowits

I. Potential Emissions

A. Source emissions before controls

Hot Oil Heater on Oil
 (oil/<100MMBTU/uncontrolled)

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

Pollutant:	<u>1.00</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	<u>141800</u> Btu/gal * 2000 lbs/ton	
PM:	2.0 lbs/1000 gal =	<u>0.062</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>0.102</u> tons/yr
SOx:	71.0 lbs/1000 gal =	<u>2.19</u> tons/yr
NOx:	20.0 lbs/1000 gal =	<u>0.618</u> tons/yr
VOC:	0.34 lbs/1000 gal =	<u>0.011</u> tons/yr
CO:	5.0 lbs/1000 gal =	<u>0.154</u> tons/yr

Hot Oil Heater on Gas
 (gas/<100MMBTU/uncontrolled)

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

Pollutant:	<u>1.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
PM:	1.9 lbs/MMcf =	<u>0.008</u> tons/yr
PM-10:	7.6 lbs/MMcf =	<u>0.033</u> tons/yr
SOx:	0.6 lbs/MMcf =	<u>0.003</u> tons/yr
NOx:	100.0 lbs/MMcf =	<u>0.438</u> tons/yr
VOC:	5.5 lbs/MMcf =	<u>0.024</u> tons/yr
CO:	84.0 lbs/MMcf =	<u>0.368</u> tons/yr

Dryer Burner (gas/<100MMBTU/uncontrolled)

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

Pollutant:	<u>0.000</u> MMBtu/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf * 2000 lbs/ton	
PM:	1.9 lbs/MMcf =	<u>0.00</u> tons/yr
PM-10:	7.6 lbs/MMcf =	<u>0.00</u> tons/yr
SOx:	0.6 lbs/MMcf =	<u>0.00</u> tons/yr
NOx:	100.0 lbs/MMcf =	<u>0.00</u> tons/yr
VOC:	5.5 lbs/MMcf =	<u>0.00</u> tons/yr
CO:	84.0 lbs/MMcf =	<u>0.00</u> tons/yr

Dryer Burner (gas/>100MMBTU/uncontrolled)

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

Pollutant:	120 MMBtu/hr * 8760 hrs/yr 1000 Btu/cf * 2000 lbs/ton	* Ef (lbs/MMcf) = (tons/yr) (tons/yr)
P M:	1.9 lbs/MMcf =	<u>0.999</u> tons/yr
P M-10:	7.6 lbs/MMcf =	<u>3.99</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.315</u> tons/yr
N O x:	190.0 lbs/MMcf =	<u>99.9</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>2.89</u> tons/yr
C O:	84.0 lbs/MMcf =	<u>44.2</u> tons/yr

Dryer Burner (gas/>100MMBTU/low nox)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (low NOx burner = 140, flue gas recirculation = 100)

Pollutant:	0.000 MMBtu/hr * 8760 hrs/yr 1000 Btu/cf * 2000 lbs/ton	* Ef (lbs/MMcf) = (tons/yr) (tons/yr)
P M:	1.9 lbs/MMcf =	<u>0.000</u> tons/yr
P M-10:	7.6 lbs/MMcf =	<u>0.000</u> tons/yr
S O x:	0.6 lbs/MMcf =	<u>0.000</u> tons/yr
N O x:	140.0 lbs/MMcf =	<u>0.000</u> tons/yr
V O C:	5.5 lbs/MMcf =	<u>0.000</u> tons/yr
C O:	84.0 lb/MMcf =	<u>0.000</u> tons/yr

Dryer Burner (#2 & #1 oil) <100

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

Pollutant:	120.0 MMBtu/hr * 8760 hrs/yr 141000 Btu/gal * 2000 lbs/ton	* Ef (lbs/1000 gal) = (tons/yr)
P M:	2.0 lbs/1000 gal =	<u>7.46</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>12.3</u> tons/yr
S O x:	71.0 lbs/1000 gal =	<u>265</u> tons/yr
N O x:	24.0 lbs/1000 gal =	<u>89.5</u> tons/yr
V O C:	0.20 lbs/1000 gal =	<u>0.746</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>18.6</u> tons/yr

If Rating >100 mmBtu	
N O x:	24.0
V O C:	0.20

(#4 oil/ <100MMBTU)

Dryer Burner

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ **0.5** % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	0.000 MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	138000 Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>0.000</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	75.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	20.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	0.34 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(#4 oil/ >100MMBTU)

Dryer Burner

The following calculations determine the amount of emissions created by #4 distillate fuel oil @ **0.5** % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	120 MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	146000 Btu/gal * 2000 lbs/ton	
P M:	2.0 lbs/1000 gal =	<u>7.20</u> tons/yr
PM-10:	3.3 lbs/1000 gal =	<u>11.9</u> tons/yr
S O x:	75.0 lbs/1000 gal =	<u>270</u> tons/yr
N O x:	24.0 lbs/1000 gal =	<u>86.4</u> tons/yr
V O C:	0.20 lbs/1000 gal =	<u>0.720</u> tons/yr
C O:	5.0 lbs/1000 gal =	<u>18.0</u> tons/yr

(waste oil/ vaporizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ **0.000** % sulfur, based on 8760 hours of use and AP-42, Chapter 1.11

0.000	% Ash
0.000	% Lead

Pollutant:	0.0 MMBtu/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	0.0 Btu/gal * 2000 lbs/ton	
P M:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
P M-10:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
S O x:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr
N O x:	11.0 lbs/1000 gal =	<u>0.000</u> tons/yr
V O C:	1.0 lbs/1000 gal =	<u>0.000</u> tons/yr
C O:	1.7 lbs/1000 gal =	<u>0.000</u> tons/yr
Pb:	0.0 lbs/1000 gal =	<u>0.000</u> tons/yr

(waste oil/atomizing burner)

The following calculations determine the amount of emissions created by waste fuel oil @ **2.1** % sulfur, based on 8760 hours of use and AP-42 Chapter 1.11

0.532	% Ash
0.000	% Lead

Pollutant: **120** MMBtu/hr * 8760 hrs/yr * Ef (lbs/1000 gal) = (tons/yr)
146000 Btu/gal * 2000 lbs/ton

P M:	35.1 lbs/1000 gal =	126 tons/yr
P M-10:	30.3 lbs/1000 gal =	109 tons/yr
S O x:	224.7 lbs/1000 gal =	809 tons/yr
N O x:	16.0 lbs/1000 gal =	57.6 tons/yr
VOC:	1.0 lbs/1000 gal =	3.60 tons/yr
C O:	2.10 lbs/1000 gal =	7.56 tons/yr
Pb:	0.00 lbs/1000 gal =	0.00 tons/yr

**** aggregate drying: drum-mix plant ****

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and AP-42, Chapter 11.1, Table 11.1-3, rev. 12/00

P M:	28 lbs/ton x	400 tons/hr x	8760 hrs/yr =	49056 tons/yr
		2000 lbs/ton		
P M-10:	6.5 lbs/ton x	400 tons/hr x	8760 hrs/yr =	11388 tons/yr
		2000 lbs/ton		
Lead:	0.0000033 lbs/ton x	400 tons/hr x	8760 hrs/yr =	0.006 tons/yr
		2000 lbs/ton		
HAPs:	0.0076 lbs/ton x	400 tons/hr x	8760 hrs/yr =	13.3 tons/yr
		2000 lbs/ton		
Worst Case Individual HAP:	0.0031 lbs/ton x	400 tons/hr x	8760 hrs/yr =	5.43 tons/yr
		2000 lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

**** aggregate drying: batch-mix plant ****

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

P M:	32 lbs/ton x	0.0 tons/hr x	8760 hrs/yr =	0.00 tons/yr
		2000 lbs/ton		
P M-10:	4.5 lbs/ton x	0 tons/hr x	8760 hrs/yr =	0.00 tons/yr
		2000 lbs/ton		
Lead:	0.00000089 lbs/ton x	0 tons/hr x	8760 hrs/yr =	0.00 tons/yr
		2000 lbs/ton		
HAPs:	0.0076 lbs/ton x	0 tons/hr x	8760 hrs/yr =	0.00 tons/yr
		2000 lbs/ton		
Worst Case Individual HAP:	0.0027 lbs/ton x	0 tons/hr x	8760 hrs/yr =	0.00 tons/yr
		2000 lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

	HAPs Emission Factors (lbs/ton)		
	Natural Gas	Fuel Oil	Waste Oil
Total	0.005	0.009	0.010
Worst Case Individual	0.0031	0.0031	0.0031
Lead	0.00000062	0.000015	0.000015

	HAPs Emission Factors (lbs/ton)		
	Natural Gas	Fuel Oil	Waste Oil
Total	0.0076	0.0076	0.0077
Worst Case Individual	0.0027	0.0027	0.0027
Lead	0.00000089	0.0000089	0.0000089

**** conveying / handling ****

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 11.19.2

$$E_f = .0032 \cdot \frac{(U/5)^{1.3} \cdot k}{(M/2)^{1.4}}$$

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

0.003 lbs/ton

PM : 0.003 lbs/ton x 400.0 tons/hr x 8760 hrs/yr = 4.85 tons/yr
 2000 lbs/ton

P M-10: 10% of PM = 0.485 tons/yr

Screening

PM: 400.0 tons/hr x 0.0315 lbs/ton / 2000 lbs/ton x 8760 hrs/yr = 55.2 tons/yr

AP-42 Ch.11.19.2

P M-10: 10% of PM = 5.52 tons/yr

**** unpaved roads ****

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

$$\begin{aligned} & 25 \text{ trip/hr} \times \\ & 0.2 \text{ mile/trip} \times \\ & 2 \text{ (round trip) } \times \\ & 8760 \text{ hr/yr} = \qquad \qquad \qquad 87600 \text{ miles per year} \end{aligned}$$

PM

Method 1a:

$$E_f = k \left[\frac{(s/12)^{0.9}}{5.04} \right] \left[\frac{(W/3)^b}{2000} \right]$$

where k = 4.9 (particle size multiplier for PM)
 s = 4.8 mean % silt content of unpaved roads
 b = 0.45 Constant for PM-10 and PM-30 or TSP
 W = 20 tons average vehicle weight
 M = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)

$$E = \frac{5.04 \text{ lb/mi} \times 87600 \text{ mi/yr}}{2000 \text{ lb/ton}} = 220.94 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot \left[\frac{(365-p)}{365} \right] = 145.28 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

PM-10

Method 1a:

$$E_f = k \left[\frac{(s/12)^{0.9}}{1.54} \right] \left[\frac{(W/3)^b}{2000} \right]$$

where k = 1.5 (particle size multiplier for PM-10)
 s = 4.8 mean % silt content of unpaved roads
 b = 0.45 Constant for PM-10 and PM-30 or TSP
 W = 20 tons average vehicle weight
 M = 0.2 surface material moisture content, % (default is 0.2 for dry conditions)

$$E = \frac{1.54 \text{ lb/mi} \times 87600 \text{ mi/yr}}{2000 \text{ lb/ton}} = 67.64 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot \left[\frac{(365-p)}{365} \right] = 44.47 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

All Trucking

Total PM: 145 tons/yr
 Total PM-10: 44.5 tons/yr

**** storage ****

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

$$\begin{aligned}
 Ef &= 1.7 \cdot (s/1.5) \cdot (365-p) / 235 \cdot (f/15) \\
 &= 1.74 \text{ lbs/acre/day for sand} \\
 &= 1.16 \text{ lbs/acre/day for stone} \\
 &= 1.16 \text{ lbs/acre/day for slag} \\
 &= 1.16 \text{ lbs/acre/day for gravel} \\
 &= 1.16 \text{ lbs/acre/day for RAP} \\
 \text{where } s &= 1.5 \% \text{ silt for sand} \\
 s &= 1.0 \% \text{ silt of stone} \\
 s &= 1.0 \% \text{ silt of slag} \\
 s &= 1.0 \% \text{ silt of gravel} \\
 s &= 1.0 \% \text{ silt for RAP} \\
 p &= 125 \text{ days of rain greater than or equal to 0.01 inches} \\
 f &= 15 \% \text{ of wind greater than or equal to 12 mph}
 \end{aligned}$$

$$\begin{aligned}
 Ep \text{ (storage)} &= \frac{Ef \cdot sc \cdot (20 \text{ cuft/ton}) \cdot (365 \text{ days/yr})}{(2000 \text{ lbs/ton}) \cdot (43560 \text{ sqft/acre}) \cdot (25 \text{ ft})} \\
 &= 0.058 \text{ tons/yr for sand} \\
 &= 0.155 \text{ tons/yr for stone} \\
 &= 0.000 \text{ tons/yr for slag} \\
 &= 0.155 \text{ tons/yr for gravel} \\
 &= 0.039 \text{ tons/yr for RAP} \\
 \text{Total PM:} &= \underline{\underline{0.407}} \text{ tons/yr}
 \end{aligned}$$

$$\begin{aligned}
 \text{where } sc &= 10,000 \text{ tons storage capacity for sand} \\
 sc &= 40,000 \text{ tons storage capacity for stone} \\
 sc &= 0,000 \text{ tons storage capacity for slag} \\
 sc &= 40,000 \text{ tons storage capacity for gravel} \\
 sc &= 10,000 \text{ tons storage capacity for RAP}
 \end{aligned}$$

$$\begin{aligned}
 \text{P M-10:} \quad 35\% \text{ of PM} &= \underline{\underline{0.020}} \text{ tons/yr for sand} \\
 35\% \text{ of PM} &= \underline{\underline{0.054}} \text{ tons/yr for stone} \\
 35\% \text{ of PM} &= \underline{\underline{0.000}} \text{ tons/yr for slag} \\
 35\% \text{ of PM} &= \underline{\underline{0.054}} \text{ tons/yr for gravel} \\
 35\% \text{ of PM} &= \underline{\underline{0.014}} \text{ tons/yr for RAP} \\
 \text{Total PM-10:} &= \underline{\underline{0.143}} \text{ tons/yr}
 \end{aligned}$$

**** Recycled Asphalt Pavement System ****

Operation	Capacity (tons/hr)	Emission Factor for PM (lbs/ton)	Emission Factor for PM-10 (lbs/ton)	Potential PM Emissions (lbs/hr)	Potential PM-10 Emissions (lbs/hr)	Potential PM Emissions (tons/yr)	Potential PM-10 Emissions (tons/yr)
Screening	80	0.025	0.0087	2.00	0.696	8.76	3.05
Conveying	80	0.003	0.0011	0.24	0.088	1.05	0.385
Breaker	80	0.0054	0.0024	0.432	0.192	1.89	0.841
Conveying	80	0.003	0.0011	0.24	0.088	1.05	0.385
Totals:				2.91	1.06	12.8	4.66

Methodology

Emission Factors for Recycled Asphalt Paving System are from AP-42, Draft Section 11.19.2, Table 11.19.2-2 (SCC 3-05-020-02, SCC 3-05-020-03, SCC 3-05-020-06)

RAP Crusher Operating on Diesel Fuel

Heat Input Capacity
 Horsepower (hp)

Potential Throughput
 hp-hr/yr

0

0.0

Emission Factor in lb/hp-hr	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.00	0.00	0.00	0.0	0.00	0.00

Methodology

Potential Throughput (hp-hr/yr) = hp * 8760 hr/yr

Use a conversion factor of 7,000 Btu per hp-hr to convert from horsepower to Btu/hr, unless the source gives you a source-specific brake-specific fuel consumption. (AP-42, Footnote a, Table 3.3-1)

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-2

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

**** Load Out****

The following calculations determine the amount of emissions created by material handling of liquid asphalt based on 8760 hours of use and AP-42, Ch 11.1, Table 11.1-14, 15 and 16

Load Out	PM Ef =	$0.000181 + 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$	<u>0.000522</u> lbs/ton
	TOC Ef =	$0.0172(-V)e^{((0.0251)(T + 460) - 20.43)}$	<u>0.004159</u> lbs/ton
	CO Ef =	$0.00558(-V)e^{((0.0251)(T + 460) - 20.43)}$	<u>0.001349</u> lbs/ton
	HAP Ef =	$((0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}) * (5.93\% + 1.18\%)) + \text{TOC Ef} \times 1.5\%$	<u>0.000062</u> lbs/ton

where V = -0.5 (asphalt volatility)
 T = 325 (mix temperature in degrees Fahrenheit)

PM :	<u>0.000522</u> lbs/ton x	<u>400.0</u> tons/hr x	8760 hrs/yr =	<u>0.914</u> tons/yr
		2000 lbs/ton		
PM 10 :	<u>0.000522</u> lbs/ton x	<u>400.0</u> tons/hr x	8760 hrs/yr =	<u>0.914</u> tons/yr
		2000 lbs/ton		
VOC :	<u>0.004159</u> lbs/ton x	<u>400.0</u> tons/hr x	8760 hrs/yr =	<u>7.29</u> tons/yr
		2000 lbs/ton		
CO :	<u>0.001349</u> lbs/ton x	<u>400.0</u> tons/hr x	8760 hrs/yr =	<u>2.36</u> tons/yr
		2000 lbs/ton		
Total HAPs :	<u>0.000062</u> lbs/ton x	<u>400.0</u> tons/hr x	8760 hrs/yr =	<u>0.109</u> tons/yr
		2000 lbs/ton		

Emissions before controls (combustion plus production) are as follows (fuel indicated is fuel used at dryer):

natural gas	#2 oil	#4 oil	waste oil
P M: 49276 tons/yr	P M: 49275 tons/yr	P M: 49283 tons/yr	P M: 49402 tons/yr
P M-10: 11448 tons/yr	P M-10: 11457 tons/yr	P M-10: 11456 tons/yr	P M-10: 11553 tons/yr
S O x: 2.51 tons/yr	S O x: 267 tons/yr	S O x: 272 tons/yr	S O x: 811 tons/yr
N O x: 100 tons/yr	N O x: 90.1 tons/yr	N O x: 87.0 tons/yr	N O x: 58.2 tons/yr
V O C: 10.2 tons/yr	V O C: 8.06 tons/yr	V O C: 8.03 tons/yr	V O C: 10.9 tons/yr
C O: 46.9 tons/yr	C O: 21.4 tons/yr	C O: 3.45 tons/yr	C O: 10.3 tons/yr
Lead: 0.006 tons/yr	Lead: 0.006 tons/yr	Lead: 0.006 tons/yr	Lead: 0.006 tons/yr
HAPs: 13.4 tons/yr	HAPs: 13.4 tons/yr	HAPs: 13.4 tons/yr	HAPs: 13.4 tons/yr

B. Source emissions after controls

dryer combustion: gas			
P M:	1.00 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.0004</u> tons/yr
P M-10:	3.99 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.002</u> tons/yr
dryer combustion: #2 oil			
P M:	7.46 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.003</u> tons/yr
P M-10:	12.30 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.005</u> tons/yr
hot oil heater combustion: gas			
P M:	0.008 tons/yr x	<u>1.00000</u> emitted after controls =	<u>0.008</u> tons/yr
P M-10:	0.033 tons/yr x	<u>1.00000</u> emitted after controls =	<u>0.033</u> tons/yr
hot oil heater combustion: #2 oil			
P M:	0.062 tons/yr x	<u>1.00000</u> emitted after controls =	<u>0.062</u> tons/yr
P M-10:	0.102 tons/yr x	<u>1.00000</u> emitted after controls =	<u>0.102</u> tons/yr
dryer combustion: #4 oil			
P M:	7.20 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.003</u> tons/yr
P M-10:	11.88 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.005</u> tons/yr
dryer combustion: waste oil			
P M:	126.40 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.051</u> tons/yr
P M-10:	109.17 tons/yr x	<u>0.00040</u> emitted after controls =	<u>0.044</u> tons/yr
aggregate drying:			
P M:	49056.00 tons/yr x	<u>0.00040</u> emitted after controls =	<u>19.6</u> tons/yr
P M-10:	11388.00 tons/yr x	<u>0.00040</u> emitted after controls =	<u>4.56</u> tons/yr
conveying/handling:			
P M:	4.85 tons/yr x	<u>1.000</u> emitted after controls =	<u>4.85</u> tons/yr
P M-10:	0.49 tons/yr x	<u>1.000</u> emitted after controls =	<u>0.485</u> tons/yr
screening			
P M:	55.19 tons/yr x	<u>1.000</u> emitted after controls =	<u>55.2</u> tons/yr
P M-10:	5.52 tons/yr x	<u>1.000</u> emitted after controls =	<u>5.52</u> tons/yr
unpaved roads:			
P M:	145.28 tons/yr x	50.00% emitted after controls =	<u>72.6</u> tons/yr
P M-10:	44.47 tons/yr x	50.00% emitted after controls =	<u>22.2</u> tons/yr
storage:			
P M:	0.407 tons/yr x	50.00% emitted after controls =	<u>0.204</u> tons/yr
P M-10:	0.143 tons/yr x	50.00% emitted after controls =	<u>0.071</u> tons/yr
RAP System:			
P M:	12.8 tons/yr x	100% emitted after controls =	<u>12.8</u> tons/yr
P M-10:	4.66 tons/yr x	100% emitted after controls =	<u>4.66</u> tons/yr

Load Out:

P M:	0.914 tons/yr x	100% emitted after controls =	<u>0.914</u> tons/yr
P M-10:	0.914 tons/yr x	100% emitted after controls =	<u>0.914</u> tons/yr

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

	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	166	166	166	166	tons/yr
P M-10:	38.5	38.5	38.4	38.5	tons/yr

II. Allowable Emissions

A. The following calculations determine compliance with 326 IAC 6-1, which limits the stack emissions to 0.03 gr/dscf, and NSPS Subpart I, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

$$\frac{0.03 \text{ grains} \cdot 66050 \text{ acfm}}{\text{dscf}} \cdot \frac{528}{460 + 350 \text{ Temp}} \cdot \frac{100 - 5}{100} \cdot \frac{525600 \text{ minutes}}{\text{year}} \cdot \frac{1}{7000 \text{ grains}} \cdot \frac{1 \text{ ton}}{2000 \text{ lbs}} = 46.1 \text{ tons/yr}$$

To meet NSPS Subpart I, the following value must be < amount calculated above

19.7 tons/yr

B. The following calculations determine the maximum sulfur content of distillate #2 fuel oil allowable by 326 IAC 7:

limit:	0.5 lbs/MMBtu		
	0.5 lbs/MMBtu x	<u>141000</u> Btu/gal=	<u>70.5</u> lbs/1000gal
	70.5 lbs/1000gal /	<u>142</u> lb/1000 gal =	<u>0.496</u>
		<u>0.5</u> % to comply with 326 IAC 7	

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

C. The following calculations determine the maximum sulfur content of reused or waste fuel oil allowable by 326-IAC 7:

limit:	1.6 lbs/MMBtu		
	1.6 lbs/MMBtu x	<u>142500</u> Btu/gal=	228 lbs/1000gal
	228 lbs/1000gal /	<u>107</u> lbs/1000 gal =	<u>2.13</u>
		<u>2.1</u> % to comply with 326 IAC 7	

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

limit:	0.5 lbs/MMBtu		
	0.5 lbs/MMBtu x	<u>141000</u> Btu/gal=	70.5 lbs/1000gal
	70.5 lbs/1000gal /	<u>150</u> lbs/1000 gal =	<u>0.470</u>
		<u>0.5</u> % to comply with 326 IAC 7	

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON NOx

FUEL USAGE LIMITATION FOR BURNER & HEATER (Gas)

100.48	$\frac{\text{tons NOx}}{\text{year}}$	*	2000	$\frac{\text{lbs}}{\text{ton}}$	=	200964	$\frac{\text{lbs NOx}}{\text{year}}$
200964	$\frac{\text{lbs NOx}}{\text{year}}$	/	190.0	$\frac{\text{lbs NOx}}{\text{MMcf}}$	=	1057.70	$\frac{\text{MMcf}}{\text{year}}$
1057.70	$\frac{\text{MMcf}}{\text{year}}$	*	99.0	$\frac{\text{tons/yr}}{100.48 \text{ tons/yr}}$	=	1042	$\frac{\text{MMcf}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

To determine equivalency

99.00	$\frac{\text{tons NOx}}{\text{year}}$	*	2000	$\frac{\text{lbs}}{\text{ton}}$	=	198000.00	$\frac{\text{lbs NOx}}{\text{year}}$
198000.00	$\frac{\text{lbs NOx}}{\text{year}}$	/	24.0	$\frac{\text{lbs}}{1000 \text{ gal}}$	=	8250.00	$\frac{\text{kgal}}{\text{year}}$
8250.00	$\frac{\text{kgal}}{\text{year}}$	*	99.0	$\frac{\text{tons/yr}}{99.00 \text{ tons/yr}}$	=	8250	$\frac{\text{kgal}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

To determine equivalency

99.00	$\frac{\text{tons NOx}}{\text{year}}$	*	2000	$\frac{\text{lbs}}{\text{ton}}$	=	198000.00	$\frac{\text{lbs NOx}}{\text{year}}$
198000.00	$\frac{\text{lbs NOx}}{\text{year}}$	/	24.0	$\frac{\text{lbs}}{1000 \text{ gal}}$	=	8250.00	$\frac{\text{kgal}}{\text{year}}$
8250.00	$\frac{\text{kgal}}{\text{year}}$	*	99.0	$\frac{\text{tons/yr}}{99.00 \text{ tons/yr}}$	=	8250	$\frac{\text{kgal}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

99.00	$\frac{\text{tons NOx}}{\text{year}}$	*	2000	$\frac{\text{lbs}}{\text{ton}}$	=	198000.00	$\frac{\text{lbs NOx}}{\text{year}}$
198000.00	$\frac{\text{lbs NOx}}{\text{year}}$	/	16.0	$\frac{\text{lbs}}{1000 \text{ gal}}$	=	12375.00	$\frac{\text{kgal}}{\text{year}}$
12375.00	$\frac{\text{kgal}}{\text{year}}$	*	99.0	$\frac{\text{tons/yr}}{99.00 \text{ tons/yr}}$	=	12375	$\frac{\text{kgal}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION: BASED ON SO2

FUEL USAGE LIMITATION FOR BURNER & HEATER (#2 Oil)

$\frac{266.9 \text{ tons SO}_2}{\text{year}}$	*	$\frac{2000 \text{ lbs}}{\text{ton}}$	=	$533713.84 \frac{\text{lbs SO}_2}{\text{year}}$
$\frac{533713.84 \text{ lbs SO}_2}{\text{year}}$	/	$\frac{71.0 \text{ lbs}}{1000 \text{ gal}}$	=	$7517096.3 \frac{\text{gal}}{\text{year}}$
$\frac{7517096.30 \text{ gal}}{\text{year}}$	*	$\frac{99.0 \text{ tons/yr}}{266.86 \text{ tons/yr}}$	=	$2788732 \frac{\text{gal}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (#4 Oil)

$\frac{272.2 \text{ tons SO}_2}{\text{year}}$	*	$\frac{2000 \text{ lbs}}{\text{ton}}$	=	$544386.1777 \frac{\text{lbs SO}_2}{\text{year}}$
$\frac{544386.18 \text{ lbs SO}_2}{\text{year}}$	/	$\frac{75.0 \text{ lbs}}{1000 \text{ gal}}$	=	$7258482.37 \frac{\text{gal}}{\text{year}}$
$\frac{7258482.37 \text{ gal}}{\text{year}}$	*	$\frac{99.0 \text{ tons/yr}}{272.19 \text{ tons/yr}}$	=	$2640000 \frac{\text{gal}}{\text{year}}$ FESOP Limit

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

$\frac{811.1 \text{ tons SO}_2}{\text{year}}$	*	$\frac{2000 \text{ lbs}}{\text{ton}}$	=	$1622226.18 \frac{\text{lbs SO}_2}{\text{year}}$
$\frac{1622226.18 \text{ lbs SO}_2}{\text{year}}$	/	$\frac{228.0 \text{ lbs}}{1000 \text{ gal}}$	=	$7115027.10 \frac{\text{gal}}{\text{year}}$
$\frac{7115027.10 \text{ gal}}{\text{year}}$	*	$\frac{99.0 \text{ tons/yr}}{811.11 \text{ tons/yr}}$	=	$868421 \frac{\text{gal}}{\text{year}}$ FESOP Limit

ATTACHMENT A
F 119-21451-05234
FUGITIVE EMISSION CONTROL PLAN

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions will be controlled according to the plan for the plant to be operated at the following location and future locations that this plant may be transferred to for operation.

Rogers Group, Inc. B Portable Asphalt Plant #2

1. Current Source Address.

State Highway 46 West
Spencer, Indiana 47460

2. Name of Operator Responsible.

Same as above

3. Points that have a potential to emit.

Yard traffic, load-outs, wind, stockpiles, AC storage

4. Map of the source showing aggregate pile areas, access areas, etc.

This will vary from site to site (a general site layout was attached to the initial submittal).

5. Number and mix of vehicular activity that will occur on site.

Unpaved roads B All truck and loader traffic.

6. Type and quantity of material handled.

Graded Aggregate B 560,000 tons
Sand B 200,000 tons
Liquid AC B 40,000 tons

7. Equipment used to maintain aggregate piles.

Heavy duty loaders typical to this process will be utilized to maintain the site

8. A description of the measures to be implemented to control fugitive emissions.

Wet suppression will be applied as needed with the use of a water truck to control the dust emitted from the site. This will be accomplished with a water truck or equivalent at this operation.

- 9B11. In brief the following plan will be utilized at this facility:

- a) Cleaning paved roads and parking lots by sweeping on an as needed basis (monthly minimum). Power brooming paved roads and parking lots while wet.
- b) Paving unpaved roads and parking lots with asphalt should fugitive emissions become excessive at the site. Treating with water as needed. Double chipping and sealing the road surface and maintain on an as needed basis.
- c) Maintaining minimum size and number of stockpiles of aggregate. Treating around the stockpile with water on as needed basis. Treating the stockpiles with water as needed.
- d) Applying water at the feed and the intermediate points of the conveyors as needed.
- e) Minimizing the vehicular distance between transfer points of aggregates. Enclosing the transfer points if warranted. Applying water to the transfer point on an as-needed basis.
- f) Tarping aggregate hauling vehicles. Maintaining vehicle bodies to prevent leakage. Spraying aggregates with water during transport. Maintaining a 10 miles per hour speed limit in the yard.
- g) Reducing free fall distance during loading and unloading. Reducing the rate of discharge of the aggregate. Spraying the aggregate with water on an as needed basis.

12. Other relevant data that may be requested by the commissioner including records kept and maintained which document all control measures and activities to be performed at this facility.