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

Walsh & Kelly, Inc.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F089-15208-03215	
Issued by: Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: August 6, 2002 Expiration Date: August 6, 2007

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and IDEM Northwest Indiana Office. 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 hot asphalt drum mixing plant.

Authorized individual:	Richard Wise, Plant Superintendent
Initial Source Address:	1700 East Main Street, Griffith, Indiana 46319
Mailing Address:	1700 East Main Street, Griffith, Indiana 46319
SIC Code:	2951
Source Location Status:	Lake
County Status:	Severe nonattainment for ozone Primary nonattainment sulfur dioxide (SO ₂) Moderate nonattainment for PM-10 Unclassified or attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD and Emission Offset; 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) hot asphalt drum mixer, constructed in 1995, capable of processing 350 tons per hour of raw material, equipped with one (1) 120 million British thermal units per hour natural gas fired burner using #2 diesel fuel as backup fuel using a jet pulse baghouse for controlling particulate matter (PM) emissions, and exhausting at one (1) stack (ID No. S-1);
- (b) two (2) 30,000 gallon liquid asphalt storage tanks (ID Nos. TV3 and TV4), both constructed in 1995;
- (c) one (1) 20,000 gallon liquid asphalt storage tank (ID No. TV5), constructed in 1995;
- (d) one (1) 20,000 gallon recycled oil storage tank; and
- (e) production of stockpile mix.

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) one (1) natural gas fired hot oil heater, with a maximum rated capacity of 1.41 million British thermal units per hour, exhausting at one (1) stack (ID No. S-2);
- (b) one (1) 1,000 gallon #2 fuel oil storage tank (ID No. TV6);

- (c) unpaved roads with public access;
- (d) four (4) hot asphalt mix storage bins, each with a capacity of 300 tons;
- (e) nine (9) raw material feeder bins, each with a capacity of 30 tons;
- (f) two (2) recycled asphalt feeder bins, each with a capacity of 30 tons;
- (g) four (4) storage piles with a maximum total storage capacity of 109,000 tons;
- (h) one (1) portable tertiary crusher, with a maximum capacity of 300 tons per hour, using water spray for fugitive particulate emissions control;
- (i) one (1) hot mix slat conveyor with a maximum capacity of 350 tons per hour;
- (j) one (1) virgin aggregate conveyor with a maximum capacity of 350 tons per hour; and
- (k) one (1) recycled asphalt conveyor with a maximum capacity of 122.5 tons per hour.

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)]

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

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

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and IDEM Northwest Indiana Office, 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 Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

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

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

- (b) The Permittee shall furnish to IDEM, OAQ, and IDEM Northwest Indiana Office within a reasonable time, any information that IDEM, OAQ, and IDEM Northwest Indiana Office may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, and IDEM Northwest Indiana Office copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]
- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

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

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and IDEM Northwest Indiana Office on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, and IDEM Northwest Indiana Office may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, and IDEM Northwest Indiana Office upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and IDEM Northwest Indiana Office. IDEM, OAQ, and IDEM Northwest Indiana Office may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or IDEM Northwest Indiana Office makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or IDEM Northwest Indiana Office within a reasonable time.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and IDEM Northwest Indiana Office, 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 No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967
Telephone No.: 219-881-6725 (IDEM Northwest Regional Office)
Facsimile No.: 219-881-6745 (IDEM Northwest Regional Office)

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

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

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAQ and IDEM Northwest Indiana Office, 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 and IDEM Northwest Indiana Office, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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 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.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ or IDEM Northwest Indiana Office 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 or IDEM Northwest Indiana Office, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ or IDEM Northwest Indiana Office, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ or IDEM Northwest Indiana Office, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ and IDEM Northwest Indiana Office takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and IDEM Northwest Indiana Office, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

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

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

and

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

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
 - (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and IDEM Northwest Indiana Office, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).
- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
- (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;

- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

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

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

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

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

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

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
 - (2) The potential to emit any regulated pollutant from the entire source, except particulate matter (PM) and volatile organic compounds (VOCs), shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period;
 - (3) 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
 - (4) 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 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than two-hundred and fifty (250) 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 twenty percent (20%) 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 October 10, 1996, which consists of watering the following fugitive emission activities on an as needed basis:

- (a) Vehicular traffic on unpaved roads, paved roads and parking lots;
- (b) Aggregate stockpile operations; and
- (c) Outdoor aggregate conveying and handling.

C.7 Fugitive Dust Emissions [326 IAC 6-1-11.1]

Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (i) The PM₁₀ emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

- (j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on October 10, 1996.

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

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

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

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

All required notifications shall be submitted to:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

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

C.11 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

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

Compliance Requirements [326 IAC 2-1.1-11]

C.12 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.13 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.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.15 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

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

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

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

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

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or

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

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

C.17 Compliance Response Plan - Preparation, Implementation, Records, and Reports
[326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

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

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

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

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

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

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8). The statement must be submitted to:

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

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

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

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

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

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

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

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 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, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

IDEM Northwest Indiana Office
Gainer Bank Building
Suite 418
504 North Broadway
Gary, Indiana 46402

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and IDEM Northwest Indiana Office on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The 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.

Portable Source Requirement

C.22 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana. A thirty (30) day advance notice of relocation must be given to IDEM, OAQ and a "Relocation Site Approval" letter must be obtained before relocating. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall also notify the applicable local air pollution control agency when relocating to or from one of 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 Division of Air Pollution)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Air Pollution Control Agency)
 - (6) St. Joseph County - (St. Joseph County Health Department)
 - (7) Vigo County - (Vigo County Air Pollution Department)

- (c) That a valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.23 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) hot asphalt drum mixer, constructed in 1995, capable of processing 350 tons per hour of raw material, equipped with one (1) 120 million British thermal units per hour natural gas fired burner using #2 diesel fuel and waste oil (recycled oil) as backup fuels, using a jet pulse baghouse for controlling particulate matter (PM) emissions, exhausting at one (1) stack (ID No. S-1);

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

Emissions Limitations and Standards [326 IAC 2-8-4(1)] [326 IAC 12] [40 CFR Part 60.90]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

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

D.1.2 Particulate Matter (PM) [326 IAC 12][40 CFR 60.90 to 60.93] [326 IAC 2-3] [326 IAC 2-2] [40 CFR 52.21]

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

- (a) particulate matter emissions from the asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), and
- (b) the visible emissions from the plant shall not exceed 20 percent opacity.

Compliance with D.1.3 shall result in compliance with this limit and shall limit the source's potential to emit of PM to less than 100 tons per twelve (12) consecutive month period and make the requirements of 326 IAC 2-2 and 40 CFR 52.21 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.3 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 2-3] [326 IAC 2-2] [40 CFR 52.21]

Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). Compliance with this requirement shall make the requirements of 326 IAC 2-3 (Emission Offset) not applicable.

D.1.4 Particulate Matter Less Than 10 Microns (PM-10) [326 IAC 2-8-4] [326 IAC 2-3] [326 IAC 2-2] [40 CFR 52.21]

Pursuant to 326 IAC 2-8-4:

- (a) PM-10 emissions from the aggregate mixing and drying operation shall be limited to 0.13 pounds of PM-10 emitted per ton of asphalt produced, including both filterable and condensable fractions.
- (b) The maximum asphalt throughput shall be limited to 1,000,000 tons per 12 consecutive month period.

Compliance with this limit shall limit the source's potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, the Part 70 rules (326 IAC 2-7), 326 IAC 2-2 and 40 CFR 52.21 (PSD), and 326 IAC 2-3 (Emission Offset) do not apply.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1] [326 IAC 2-3] [326 IAC 2-8] [326 IAC 2-2] [40 CFR 52.21]
Pursuant to 326 IAC 7-1.1:

- (a) the input of No. 2 distillate oil and No. 2 distillate oil equivalents in the 120 MMBtu per hour burner for the aggregate dryer shall be limited to less than 655,348 gallons per twelve (12) consecutive month period, rolled on a monthly basis, and less than 130 gallons per hour, based on maximum sulfur content of 0.5% for No. 2 fuel oil, so that SO₂ emissions are limited to less than 25 tons per year and less than 10 pounds per hour, respectively.
- (b) For purposes of determining compliance with paragraph (a) of this condition, every 1,000 gallons of re-refined waste oil with maximum sulfur content of 0.3% burned shall be equivalent to 634.8 gallons of No. 2 oil, based on SO₂ emissions, such that the total gallons of No. 2 distillate fuel oil and No. 2 oil equivalent input does not exceed the limit specified.

Therefore, the requirements of 326 IAC 7-1 will not apply. This limit will also render 326 IAC 2-7, 326 IAC 2-2 and 40 CFR 52.21 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

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

During the period between July 2005 and December 2005, the Permittee shall perform the following to demonstrate compliance with Conditions D.1.2 , D.1.3 and D.1.4 for the drum-mix aggregate dryer:

- (a) PM and PM-10 testing utilizing methods per 40 CFR Part 60 Appendix A, Method 5 for PM and methods, as approved by the Commissioner for PM-10. PM-10 includes filterable and condensable PM-10.
- (b) Opacity testing utilizing 40 CFR Part 60 Appendix A, Method 9, to demonstrate compliance with the opacity limitation of Condition D.1.3.

This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.8 Particulate Matter (PM)

The baghouse for PM and PM10 control shall be in operation at all times when the aggregate dryer and burner are in operation.

D.1.9 Used Oil Requirements [329 IAC 13-8]

- (a) 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:
 - (1) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
 - (2) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and

- (3) Maintain records pursuant to 329 IAC 13-8-6 (Tracking).
- (b) The waste oil burned in the dryer/mixer burner shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). The burning of mixtures of used oil and hazardous waste that is regulated by 329 IAC 3.1 is prohibited at this source.

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

D.1.10 Visible Emissions Notations

- (a) Visible emission notations of the mixing and drying operation stack 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.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.11 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in controlling the mixing and drying operations, at least once per shift when the mixing and drying process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

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

D.1.12 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the drum-mix aggregate mixing/drying operations when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.13 Broken or Failed Bag Detection

In the event that bag failure has been observed:

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

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

D.1.14 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain records in accordance with (1) through (2) below.
 - (1) Monthly fuel oil usages; and
 - (2) Hourly fuel oil usages.
- (b) To document compliance with condition D.1.4, the Permittee shall maintain records of the total amount of aggregate delivered to the dryer each month.
- (c) To document compliance with condition D.1.10, the Permittee shall maintain once per shift records of visible emission notations of the mixing and drying operation stack exhaust.
- (d) To document compliance with Condition D.1.11, the Permittee shall maintain once per shift records of the differential pressure during normal operation when venting to the atmosphere.
- (e) To document compliance with Condition D.1.12, the Permittee shall maintain records of the results of the inspections required under Condition D.1.12 and the dates the vents are redirected.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.15 Reporting Requirements

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

SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (e) production of stockpile mix.

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

Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: Asphalt Paving), the use of cutback asphalt or asphalt emulsion shall not contain more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

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

D.2.2 Cold-Mix (Stockpile Mix) VOC Usage [326 IAC 2-8-4] [326 IAC 2-3] [326 IAC 2-2] [40 CFR 52.21]

Emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt shall be limited to 22.52 tons of VOC solvent per twelve (12) consecutive month period. This is equivalent to limiting the VOC emitted from solvent use to less than 10.45 tons per 12 consecutive month period, based on the following definition:

Emulsified asphalt with solvent - contains a maximum of 15 percent (%) of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, shall be 7% or less of the total emulsion by volume.

Therefore, the requirements of 326 IAC 2-7, 326 IAC 2-2 and 40 CFR 52.21 (PSD) and 326 IAC 2-3 (Emission Offset) do not apply.

Compliance Determination Requirements

D.2.3 VOC Emissions

Compliance with Condition D.2.2 shall be demonstrated within 30 days of the end of each month based on the VOC solvent emulsified asphalt binder usage for the most recent twelve (12) month period.

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

D.2.4 Record Keeping Requirements

To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (a) through (d) below. Records maintained for (a) through (d) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Condition D.2.2.

- (a) Calendar dates covered in the compliance determination period;

- (b) Emulsified asphalt binder usage per month since the last compliance determination period;
- (c) VOC solvent content by weight of the emulsified asphalt binder used each month; and
- (d) Amount of VOC solvent used in the production of cold mix asphalt, and the amount of VOC emitted each month.

All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.5 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 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 not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (b) two (2) 30,000 gallon liquid asphalt storage tanks (ID Nos. TV3 and TV4), both constructed in 1995;
- (c) one (1) 20,000 gallon liquid asphalt storage tank (ID No. TV5), constructed in 1995;
- (d) one (1) 20,000 gallon recycled oil storage tank;

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

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

D.3.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart Kb.

D.3.2 Record Keeping Requirements [326 IAC 12] [40 CFR 60.110b, Subpart Kb]

Pursuant to the New Source Performance Standard (NSPS), 326 IAC12 and 40 CFR Part 60.116 Subpart Kb, the Permittee shall maintain permanent accessible records at the source for the life of each volatile liquid storage tank as follows:

- (a) the dimension of each storage vessel;
- (b) an analysis showing the capacity of each storage vessel; and
- (c) the true vapor pressure of the VOC stored in each storage vessel, to be less than 15.0 kPa.

SECTION D.4 FACILITY OPERATION CONDITIONS

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

- (h) one (1) portable tertiary crusher, with a maximum capacity of 300 tons per hour, using water spray for fugitive particulate emissions control

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

Emissions Limitations and Standards

D.4.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this section except when otherwise specified in 40 CFR Part 60, Subpart OOO.

D.4.2 Particulate Matter (PM) [40 CFR Part 60, Subpart OOO] [326 IAC 6-1-2]

- (a) Pursuant to the New Source Performance Standards, 326 IAC 12 and 40 CFR 60.672 (b),(c), Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) the particulate emissions from the crushing operations and the conveying operations shall be limited to fifteen percent (15%) opacity or less and ten percent (10%) opacity or less, respectively.
- (b) Pursuant to 326 IAC 6-1-2 (Particulate Emissions Limitations), the allowable particulate matter emissions from the crushing operations is 0.72 lb/hr.

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-1-4(f)]

Pursuant to 40 CFR 60.675(c) and 40 CFR 60.11, opacity tests to determine compliance with operation condition D.4.2 shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after permit issuance. These tests shall be performed according to 326 IAC 3-6 (Source Sampling Procedures) utilizing U. S. EPA Method 9 (40 CFR Part 60, Appendix A) or other methods as approved by the Commissioner.

Compliance Monitoring Requirements

D.4.4 Continuous Wet Suppression

Fugitive emissions from the crushing, screening, and conveying operations shall be controlled by utilizing a continuous wet suppression system in order to meet the requirements of condition D.4.2.

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

AND

IDEM NORTHWEST INDIANA OFFICE

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

Source Name: Walsh & Kelly, Inc.
Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
FESOP No.: F089-15208-03215

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

AND

IDEM NORTHWEST INDIANA OFFICE

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

Source Name: Walsh & Kelly, Inc.
Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
FESOP No.: F089-15208-03215

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
CThe 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
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

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

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

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

Page 2 of 2

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

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

A certification is not required for this report.

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

AND

IDEM NORTHWEST INDIANA OFFICE

FESOP Quarterly Report

Source Name: Walsh & Kelly, Inc.
 Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
 Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
 FESOP No.: F089-15208-03215
 Facility: 120 MMBtu per hour burner for the aggregate dryer
 Parameter: SO2 fuel oil consumption limitations
 Limit: The input of No. 2 distillate fuel oil, with maximum sulfur content of 0.5%, plus equivalent No. 2 distillate fuel oil equivalents in the 120 MMBtu per hour burner for the aggregate dryer shall be limited to 655,348 gallons per twelve (12) consecutive month period, so that SO₂ emissions are limited below 25 tons per year.

YEAR: _____

Month	No. 2 distillate fuel oil (& equivalents) usage this month (gallons)	No. 2 distillate fuel oil (& equivalents usage) previous 11 months (gallons)	No. 2 distillate fuel oil (& equivalents usage) last 12 months (gallons)
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this month.
- 9 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**

AND

IDEM NORTHWEST INDIANA OFFICE

FESOP Quarterly Report

Source Name: Walsh & Kelly, Inc.
 Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
 Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
 FESOP No.: F089-15208-03215
 Facility: 120 MMBtu per hour burner for the aggregate dryer
 Parameter: SO2 fuel oil consumption limitations
 Limit: The input of No. 2 distillate oil, with maximum sulfur content of 0.5%, plus equivalent No. 2 distillate fuel oil equivalents in the aggregate dryer shall be limited to less than 130 gallons per hour, so that SO₂ emissions are limited below 10 pounds per hour.

Day: _____ **Month:** _____ **Year:** _____

Hour	No. 2 distillate oil (& equivalents) usage (lbs/hr)	Hour	No. 2 distillate oil (& equivalents) usage (lbs/hr)
1		14	
2		15	
3		16	
4		17	
5		18	
6		19	
7		20	
8		21	
9		22	
10		23	
11		24	
12			
13		No. of deviations	

(Copy and prepare separate reports for each day)

9 No deviation occurred in this day.

9 Deviation/s occurred in this day.

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**

AND

IDEM NORTHWEST INDIANA OFFICE

FESOP Quarterly Report

Source Name: Walsh & Kelly, Inc.
Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
FESOP No.: F089-15208-03215
Facility: Cold-mix (stockpile mix) asphalt manufacturing operations
Parameter: VOC solvent in emulsified asphalt binder used in the production of cold mix asphalt
Limit: 22.52 tons of solvent per twelve (12) consecutive month period.

YEAR: _____

Month	VOC Solvent Usage This Month (Tons per Month)	VOC Solvent Usage Previous 11 Months (Tons)	VOC Solvent Usage the Last 12 Months (Tons)
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
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
AND
IDEM NORTHWEST INDIANA OFFICE**

FESOP Quarterly Report

Source Name: Walsh & Kelly, Inc.
Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
FESOP No.: F089-15208-03215
Facility: Aggregate dryer
Parameter: Particulate Matter Less Than Ten Microns (PM-10)
Limit: 1,000,000 tons of aggregate to the dryer per 12 month period.

YEAR: _____

Month	Total Material Delivered to Dryer this month (tons)	Total Material Delivered to Dryer previous 11 months (tons)	Total Material Delivered to Dryer last 12 months (tons)
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 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
 AND
 IDEM NORTHWEST INDIANA OFFICE**

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

Source Name: Walsh & Kelly, Inc.
 Initial Source Address: 1700 East Main Street, Griffith, Indiana 46319
 Mailing Address: 1700 East Main Street, Griffith, Indiana 46319
 FESOP No.: F089-15208-03215

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

<p>This report is an affirmation that the source has met all the requirements stated in this permit. 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. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do 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 "No deviations occurred this reporting period".</p>	
<p>9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p>9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
<p>Permit Requirement (specify permit condition #)</p>	
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: _____

Attach a signed certification to complete 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:	Walsh & Kelly, Inc.
Initial Source Location:	1700 East Main Street, Griffith, Indiana 46319
County:	Lake
SIC Code:	2951
Operation Permit No.:	F089-15208-03215
Permit Reviewer:	Alic Bent/EVP

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Walsh & Kelly, Inc. relating to the operation of portable hot mix asphalt drum mixing plant. Walsh & Kelly, Inc. was issued FESOP 089-6686-03215 on July 3, 1997.

Permitted Emission Units and Pollution Control Equipment

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

- (a) one (1) hot asphalt drum mixer, constructed in 1995, capable of processing 350 tons per hour of raw material, equipped with one (1) 120 million British thermal units per hour natural gas fired burner using #2 diesel fuel and waste oil (recycled oil) as backup fuels, using a jet pulse baghouse for controlling particulate matter (PM) emissions, and exhausting at one (1) stack (ID No. S-1);
- (b) two (2) 30,000 gallon liquid asphalt storage tanks (ID Nos. TV3 and TV4), both constructed in 1995;
- (c) one (1) 20,000 gallon liquid asphalt storage tank (ID No. TV5), constructed in 1995;
- (d) one (1) 20,000 gallon recycled oil storage tank; and
- (e) production of stockpile mix.

Unpermitted Emission Units and Pollution Control Equipment

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

Insignificant Activities

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

- (a) one (1) natural gas fired hot oil heater, with a maximum rated capacity of 1.41 million British thermal units per hour, exhausting at one (1) stack (ID No. S-2);
- (b) one (1) 1,000 gallon #2 fuel oil storage tank (ID No. TV6);

- (c) unpaved roads with public access;
- (d) four (4) hot asphalt mix storage bins, each with a capacity of 300 tons;
- (e) nine (9) raw material feeder bins, each with a capacity of 30 tons;
- (f) two (2) recycled asphalt feeder bins, each with a capacity of 30 tons;
- (g) four (4) storage piles with a maximum total storage capacity of 109,000 tons;
- (h) one (1) portable tertiary crusher, with a maximum capacity of 300 tons per hour, using water spray for fugitive particulate emissions control;
- (i) one (1) hot mix slat conveyor with a maximum capacity of 350 tons per hour;
- (j) one (1) virgin aggregate conveyor with a maximum capacity of 350 tons per hour; and
- (k) one (1) recycled asphalt conveyor with a maximum capacity of 122.5 tons per hour.

Existing Approvals

- (a) FESOP 089-15208-03215, issued on July 3, 1997.

All conditions from previous approvals were incorporated into this FESOP.

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 January 10, 2002.

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

Emission Calculations

See Appendix A pages 1 through 11 of this document for detailed emissions 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	43,441.06
PM-10	10,252.58
SO ₂	286.46
VOC	1,533.0
CO	43.79
NO _x	98.51

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

HAP's	Unrestricted Potential Emissions (tons/yr)
Arsenic	less than 10
Benzene	less than 10
Beryllium	less than 10
Cadmium	less than 10
Chromium	less than 10
Ethylbenzene	less than 10
Formaldehyde	less than 10
Hexane	less than 10
Isooctane	less than 10
Methyl chloroform	less than 10
Lead	less than 10
Manganese	less than 10
Mercury	less than 10
Nickel	less than 10
PAH (total) HAPs	less than 10
Toluene	less than 10
Xylene	less than 10
TOTAL	less than 25

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of of PM-10 and SO₂ are equal to or greater than 100 tons per year and the potential to emit of VOC is equal to or greater than 25 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 but, 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.

Potential to Emit After Issuance

The source, issued a FESOP on July 3 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. (F089-6686-03215; issued on July 3, 1997).

Process/emission unit	Potential to Emit After Issuance (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Dryer/Burner & Mixer ⁽¹⁾	65.94 ⁽²⁾	65.0 ⁽³⁾	< 25.0	14.55	43.28	97.91	15.69
Conveying/Handling ⁽⁴⁾	2.13	1.02	-	-	-	-	-
Storage Piles ⁽⁴⁾	0.16	0.05	-	-	-	-	-
Unpaved Roads ⁽⁴⁾	114.62	29.80	-	-	-	-	-
Cold Mix (Stockpile)	-	-	-	< 10.45 ⁽⁵⁾	-	-	-
Tertiary Crusher	3.15	3.15	-	-	-	-	-
Hot oil heater (as insignificant activity)	0.05	0.05	0.01	0.03	0.51	0.61	negl.
Total PTE After Issuance	186.05	99.07	< 25.01	< 25.0	43.79	98.52	15.69

(1) Reflects fuel limit of Condition D.1.5.

(2) Reflects the 326 IAC 6-1-2 limit of Condition D.1.3, operating at 8,760 hours/yr .

(3) Based on Condition D.1.4.

(4) Potential to emit after controls.

(5) The tons of VOC solvent used in the production of cold mix per 12 consecutive month period is limited so that the VOC emissions emitted is limited to 10.45 TPY.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	moderate nonattainment
SO ₂	primary nonattainment
NO ₂	attainment
Ozone	severe nonattainment
CO	attainment
Lead	attainment

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

- (b) A portion of Lake County has been classified as nonattainment for particulate matter with an aerodynamic diameter less than or equal to 10 micrometers (PM-10), and sulfur dioxide (SO₂). The source is located in Griffith which is in the PM-10 and SO₂ nonattainment portions of Lake County.

Portable Source

- (a) Location
This is a portable source and its current location is 1700 East Main St., Griffith, Indiana 46319.
- (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, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.

Federal Rule Applicability

- (a) The hot mix asphalt source is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90 through 60.93, Subpart I) "Standards of Performance for Hot Mix Asphalt Facilities" because it meets the definition of a hot mix asphalt facility pursuant to the rule and it was constructed after June 11, 1973. This rule limits particulate matter emissions to 0.04 grains per dry standard cubic foot (gr/dscf) and also limits visible emissions to 20% opacity. This is equivalent to a particulate matter emission rate of 16.40 pounds per hour. The source will comply with this rule by using a baghouse to limit particulate matter emissions to 0.04 gr/dscf (see Appendix A, page 9 of 11, for detailed calculations).
- (b) The two (2) 30,000 gallon liquid asphalt storage tanks (TV3 and TV4) and one (1) 20,000 gallon liquid asphalt storage tank (TV5), all installed in 1995, and the 20,000 gallon recycled oil storage tank, installed in 2002 are subject to subpart Kb because the tanks have storage capacities of greater than 40 cubic meters (m³) (10,567 gallons), but since the tanks capacities are between 75 m³ (19,813 gallons) and 151 m³ (39,890 gallons), pursuant to 40 CFR 60.110b(c), these tanks are exempt from all other provisions of this Subpart except 60.116b, which requires that permanent records showing dimensions and an analysis of the capacities of each tank be maintained and the true vapor pressure of the stored VOC, to be less than 15.0 kPa.
- (c) This plant is subject to the New Source Performance Standard 326 IAC 12, 40 CFR 60.670 through 60.676, Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) for crushing done prior to loading into the first storage silo/bin. This rule applies to stack emissions from nonmetallic mineral processing facilities. This rule applies because the crushing operations and conveying operations at this plant are used for processing nonmetallic minerals. This rule requires the particulate emissions from any crushing operations and conveying operations, at which capture systems are not used to be limited to fifteen percent (15%) opacity or less and ten percent (10%) opacity or less, respectively.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 61) and NESHAP for source categories (40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

There are no new state rules applicable to this source during this FESOP renewal review process. The applicability determination that follows is based on that conducted for original FESOP 089-6686-03125; issued on July 3, 1997.

326 IAC 2-2 and 40 CFR 52.21(Prevention of Significant Deterioration, PSD) and 326 IAC 2-3 (Emission Offset)

This source, constructed in 1995, after the applicability date of August 7, 1980, is not considered a major source because it is not one of the 28 listed source categories and shall continue to limit PM emissions to less than 100 tons per year (tpy) based on the limitation under 326 IAC 12, 40 CFR 60, Subpart I and 326 IAC 6-1-2, which limit PM to 65.94 tpy, when operating the equipment at 8,760 hours per year. PM-10 emissions shall be limited to less than 100 tpy and VOC emissions shall be limited to less than 25 tpy as described under the FESOP section below. SO₂ emissions from the aggregate dryer shall be limited to less than 25 tpy and 10 lb/hr to render 326 IAC 7-1.1 not applicable. Therefore, the requirements of 326 IAC 2-2 and 40 CFR 52.21 (PSD) and 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 2-6 (Emission Reporting)

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

326 IAC 2-8-4 (FESOP)

Pursuant to 326 IAC 2-8-4, the following limits shall apply:

- (a) SO₂ emissions from the aggregate dryer are limited to less than 25 tons per year and 10 pounds per hour to render 326 IAC 7-1.1 not applicable. Compliance with these limits shall also result in compliance with 326 IAC 2-8-4. Therefore, the requirements of 326 IAC 2-7 do not apply. This limit shall also render 326 IAC 2-2 and 40 CFR 52.21 (PSD), and 326 IAC 2-3 (Emission Offset) not applicable.
- (b) The potential to emit NO_x from natural gas combustion for a heat input of 120 MMBtu per hour at 8,760 hr/yr is less than 100 tons per year (97.91 tons per year, Appendix A, page 2 of 16). Therefore, limiting NO_x based on natural gas combustion is not necessary.
- (c) PM-10 emissions from the aggregate dryer shall be limited to 0.13 pounds of PM-10 emitted per ton of asphalt produced based on a maximum asphalt throughput of 1,000,000 tons per twelve (12) consecutive month period. The source will comply with the PM-10 emission limit by utilizing a baghouse for controlling PM-10 emissions from the aggregate dryer to 0.13 pounds per ton of asphalt produced. Compliance with this limit shall limit the source's potential to emit of PM-10 to less than 100 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-7, 326 IAC 2-2 and 40 CFR 52.21 (PSD), and 326 IAC 2-3 (Emission Offset) do not apply.

- (d) The source is limited to 25 tpy of VOC to render 326 IAC 2-3 not applicable, however, 14.55 tpy of VOC are from nonfugitive emissions. Therefore, the VOC emitted from solvent use is limited to less than 10.45 tons per 12 consecutive month period. This is equivalent to limiting the emulsified asphalt with VOC solvent liquid binder used in the production of cold mix asphalt to 22.52 tons of VOC solvent per twelve (12) consecutive month period, based on the following definition:

Emulsified asphalt with solvent - contains a maximum of 15 percent (%) of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, shall be 7% or less of the total emulsion by volume.

Compliance with this condition will limit source-wide VOC to less than 25 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-2 and 40 CFR 52.21 (PSD), and 326 IAC 2-3 (Emission Offset) do not apply.

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 this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions)

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).

326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations)

This source is subject to 326 IAC 6-5, for fugitive particulate matter emissions. Pursuant to 326 IAC 6-5, for any new source which has not received all the necessary preconstruction approvals before December 13, 1985, a fugitive dust control plan must be submitted, reviewed and approved. The source shall continue to comply with all the dust abatement measures of the dust control plan submitted on October 10, 1996 which consists of watering the following fugitive emission activities on an as needed basis:

- (a) Vehicular traffic on unpaved roads, paved roads and parking lots;
- (b) Aggregate stockpile operations; and
- (c) Outdoor aggregate conveying and handling.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (Particulate Emissions Limitations)

This rule applies to sources or facilities located in specifically listed nonattainment counties and have the potential to emit one hundred (100) tons or more of particulate matter per year or have actual emissions of ten (10) tons or more of particulate matter per year. This is a portable source currently located in Lake County, a specifically listed county, therefore, this rule applies. The particulate matter emissions from the mixing and drying operation and the crushing operations are subject to the requirements of 326 IAC 6-1-2 (Particulate Emissions Limitations) since they emit nonfugitive particulate matter.

- (a) Pursuant to this rule, particulate matter emissions from the mixing and drying operation shall be limited to 0.03 gr/ dscf. This is equivalent to a particulate matter emission rate of 15.05 pounds per hour.
- (b) The allowable PM emissions for the crushing operations is 0.72 lb/hr.

Compliance with these limits shall limit the source's potential to emit of PM to less than 100 tons per twelve (12) consecutive month period and make the requirements of 326 IAC 2-3 (Emission Offset) not applicable.

326 IAC 6-1-11.1 (Fugitive Particulate Matter Emission Limitations in Lake County)

This unpaved roads at this source is subject to the control requirements of 326 IAC 6-1-11.1(a)(1) (Lake County Fugitive Particulate Matter Control Requirements), for each facility or operation having a potential to emit five (5) tons per year or more of fugitive particulate matter. Pursuant to 326 IAC 6-1-11.1(a)(1), the average instantaneous opacity of fugitive particulate emissions from unpaved roads shall not exceed ten percent (10%). The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on submitted on October 10, 1996.

326 IAC 6-3-2 (Process Operations)

- (a) The aggregate mixing and drying operation is not subject to the requirements of 326 IAC 6-3-2, since the applicable PM limits established by 326 IAC 6-1-2 are more stringent than the PM limits that would be established by 326 IAC 6-3-2. The more stringent limits apply and the limits pursuant to 326 IAC 6-3-2 do not apply (see TSD Appendix A page 9 and 11, for details).
- (b) The crushing operation is not subject to the requirements of 326 IAC 6-3-2. This rule does not apply if the limitation established in the rule is not consistent with applicable limitations in 326 IAC 6-1-2. Since the applicable PM limits established by 326 IAC 6-1-2, are less than the PM limits that would be established by 326 IAC 6-3-2, the more stringent limits apply and the limits pursuant to 326 IAC 6-3-2 do not apply.

326 IAC 7-1.1 (Sulfur Dioxide Emissions Limitations)

The drum mix dryer (ID No. PE-1) is not subject to 326 IAC 7-1.1. This rule applies to facilities with a potential to emit SO₂ of twenty-five (25) tons per year or ten (10) pounds per hour. The SO₂ emissions from the drum mix dryer are limited as follows:

- (a) the input of No. 2 distillate oil and No. 2 distillate oil equivalents in the 120 MMBtu per hour burner for the aggregate dryer shall be limited to less than 655,348 gallons per twelve (12) consecutive month period, rolled on a monthly basis, and less than 130 gallons per hour, based on maximum sulfur content of 0.5% for No. 2 fuel oil, so that SO₂ emissions are limited to less than 25 tons per year and less than 10 pounds per hour.
- (b) For purposes of determining compliance with paragraph (a) of this condition, every 1,000 gallons of re-refined waste oil with maximum sulfur content of 0.3% burned shall be equivalent to 634.8 gallons of No. 2 oil, based on SO₂ emissions, such that the total gallons of No. 2 distillate fuel oil and No. 2 oil equivalent input does not exceed the limits specified.

Therefore, 326 IAC 7-1.1, 326 IAC 2-2 and 40 CFR 52.21 (PSD), and 326 IAC 2-3 (Emission Offset) do not apply.

326 IAC 7-2-1 (Sulfur Dioxide Reporting Requirements)

The drum mix dryer (ID No. PE-1) is not subject to 326 IAC 7-2-1. This rule applies to facilities subject to 326 IAC 7-1.1. The drum mix dryer is not subject to 326 IAC 7-1.1, therefore, this rule does not apply.

326 IAC 7-4.1 (Sulfur Dioxide Emissions Limitations)

The drum mix dryer (ID No. PE-1) is not subject to 326 IAC 7-4.1. This rule applies to all fossil fuel-fired combustion sources and facilities subject to 326 IAC 7-1.1 and located in Lake County. The drum mix dryer is located in Lake County, but is not subject to 326 IAC 7-1.1, therefore, this rule does not apply.

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

This rule applies to any paving application constructed after January 1, 1980 located anywhere in the state. This source was constructed in 1995, therefore, pursuant to this rule, the source shall not cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application, except in the following purposes:

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

This source uses stockpile mix containing emulsified asphalt. The emulsified asphalt contains less than 7% oil distillate by volume. The operation is thus in compliance with 326 IAC 8-5-2.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the specified record keeping and reporting requirements. The two (2) 30,000 gallon liquid asphalt storage tanks, one (1) 20,000 gallon liquid asphalt storage tank and the 20,000 gallon recycled oil storage tank are not subject to IAC 8-4-3 because their capacities are less than the rule applicability threshold capacity of 39,000 gallons.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties)

The requirements of this rule apply to stationary sources located in Lake, Porter, Clark and Floyd Counties that emit or have the potential to emit VOCs at levels equal to or greater than 25 tons per year in Lake and Porter Counties; 100 tons per year in Clark and Floyd Counties; and to any coating facility that emits or has the potential to emit 10 tons per year or greater in Lake, Porter, Clark or Floyd County. This source is located in Lake County, a regulated county, but the potential to emit of VOC is limited to less than 25 tons per year. Therefore, this rule is not applicable to this source.

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

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirement of the rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of the rule. Stationary storage vessels subject to any provision of 40 CFR Part 60, Subpart Kb, New Source Performance Standard for Volatile Organic Liquid Storage, are exempt from this rule. The two (2) 30,000 gallon liquid asphalt storage tanks, one (1) 20,000 gallon liquid asphalt storage tank and the 20,000 gallon recycled oil storage tank are located in Lake County, a specified county, but these vessels are subject to 40 CFR Part 60.110b, Subpart Kb, therefore this rule does not apply.

329 IAC 13-8 (Used Oil Requirements)

- (a) 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:
- (1) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
 - (2) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and
 - (3) Maintain records pursuant to 329 IAC 13-8-6 (Tracking).
- (b) The waste oil burned in the dryer/mixer burner shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). The burning of mixtures of used oil and hazardous waste that is regulated by 329 IAC 3.1 is prohibited at this source.

Testing Requirements

All testing requirements from previous approvals were incorporated into this FESOP. This source is subject to 40 CFR 60, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities), and shall comply with the particulate matter (PM) and opacity compliance testing requirements of the rule for the drum mix plant. OAQ has also required PM-10 testing to demonstrate FESOP compliance.

Previous stack tests to comply with this requirement were conducted as follows:

- (a) PM and PM-10, and opacity testing was performed October 2000.

A new opacity testing requirement has been incorporated into the existing testing condition (previously D.1.4, now re-numbered as D.1.7) of this FESOP, and the condition has been re-written for greater clarity as follows (new language in bold and stricken language with a line through it):

D.1.47 ~~Particulate Matter~~ Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

During the period between ~~36 to 42 months~~ after issuance of this permit **July 2005 - December 2005**, the Permittee shall perform **the following to demonstrate compliance with Conditions D.1.2, D.1.3 and D.1.4 for the drum mix aggregate dryer:**

- (a) PM and PM-10 testing utilizing methods per 40 CFR Part 60 Appendix A, Method 5 **for PM and methods**, ~~17, 40 CFR Part 51 Appendix M, Method 201, 201a, 202,~~ as approved by the Commissioner **for PM-10**. ~~This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.~~ PM-10 includes filterable and condensable PM-10.
- (b) **Opacity testing utilizing 40 CFR Part 60 Appendix A, Method 9, to demonstrate compliance with the opacity limitation of Condition D.1.3.**

This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing.

Justification for new testing requirement: The source is subject to the NSPS requirements of 40 CFR 60, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities). As an affected source, compliance testing for opacity is required pursuant to the NSPS, but was not included in the testing condition original FESOP, even though an opacity test was performed in October 2000. This change completes the NSPS testing requirement.

Compliance Requirements

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

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

All compliance requirements from previous approvals were incorporated into this FESOP, except the frequencies for visible emission notations and baghouse pressure drop readings have been changed to once per shift.

Reason changed: Compliance monitoring conditions are in the permit in order to ensure continuous compliance with the requirements. Baghouse failure can occur suddenly; therefore monitoring of baghouse operational parameters should be more frequent than weekly or even daily in such cases where a source operates more than one shift per day. The OAQ believes that changing visible emissions notations to once per operating shift is a reasonable requirement. Therefore, the requirements to perform visible emissions notations have been changed from weekly to once per shift. This change likewise applies to the pressure drop readings. The compliance monitoring requirements applicable to this source are as follows:

1. The mixing and drying operation has applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the drum-mix aggregate dryer/burner baghouse stack exhaust, shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee will record whether emissions are normal or abnormal.
 - (b) The Permittee shall record the total differential pressure across the baghouse controlling the drum-mix aggregate dryer, at least once per shift when the respective aggregate dryer is in operation and venting to the atmosphere. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports.
 - (c) An inspection shall be performed each calendar quarter of all bags controlling the aggregate drying/burner when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

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

These monitoring conditions are necessary because the baghouse for the aggregate mixing and drying process must operate properly to ensure compliance with 326 IAC 6-1-2 (Particulate Emissions Limitations), 326 IAC 12, 40 CFR 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Facilities), 326 IAC 2-3, 326 IAC 2-2 and 40 CFR 52.21, and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this drum mix asphalt plant shall be subject to the conditions of the attached proposed FESOP No.: F089-15208-03215.

Company Name:	Walsh & Kelly, Inc.
Plant Location:	1700 E. Main St., Griffith, IN 46319
County:	Lake
Date:	January 23, 2002
Permit Reviewer:	Alic Bent/EVP

**** general facility information ****

This source has the capability to operate a 350 ton/hr drum mixer with a dryer burner rated at 120 MMBtu/hr

**** hot oil heaters****

The following calculations determine the amount of emissions created by natural gas combustion, from hot oil heating, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2.

Criteria Pollutant:	$\frac{1.41 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1020 \text{ Btu/cf} * 2,000 \text{ lb/ton}}$	* Ef (lb/MMcf) = (ton/yr)
P M:	7.6 lb/MMcf =	0.05 ton/yr
P M-10:	7.6 lb/MMcf =	0.05 ton/yr
S O 2:	0.6 lb/MMcf =	3.63E-03 ton/yr
N O x:	100.0 lb/MMcf =	0.61 ton/yr
V O C:	5.5 lb/MMcf =	0.03 ton/yr
C O:	84.0 lb/MMcf =	0.51 ton/yr

**** asphalt heating****

The following calculations determine the amount of emissions created by natural gas combustion, from the aggregate dryer burner, based on 8,760 hours of operation and US EPA's AP-42, 5th Edition, Section 1.4 - Natural Gas Combustion, Tables 1.4-1, 1.4-2, and 1.4-3.

Criteria Pollutant:	$\frac{120 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{1020 \text{ Btu/cf} * 2,000 \text{ lb/ton}}$	* Ef (lb/MMcf) = (ton/yr)
P M:	7.6 lb/MMcf =	3.92 ton/yr
P M-10:	7.6 lb/MMcf =	3.92 ton/yr
S O 2:	0.6 lb/MMcf =	0.31 ton/yr
N O x:	190.0 lb/MMcf =	97.91 ton/yr
V O C:	5.5 lb/MMcf =	2.83 ton/yr
C O:	84.0 lb/MMcf =	43.28 ton/yr

**** asphalt heating****

The following calculations determine the amount of emissions created by the combustion of #2 distillate fuel oil @ 0.5 % sulfur, from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Tables 1.3-2, 1.3-4, and 1.3-7.

Criteria Pollutant:	$\frac{120 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{140,000 \text{ Btu/gal} * 2,000 \text{ lb/ton}}$	* Ef (lb/1,000 gal) = (ton/yr)
P M:	2.0 lb/1000 gal =	7.51 ton/yr
P M-10:	1.0 lb/1000 gal =	3.75 ton/yr
S O 2:	76.3 lb/1000 gal =	286.46 ton/yr
N O x:	20.0 lb/1000 gal =	75.09 ton/yr
V O C:	0.34 lb/1000 gal =	1.28 ton/yr
C O:	5.0 lb/1000 gal =	18.77 ton/yr

The following calculations determine the amount of emissions created by the combustion of re-refined fuel oil @ 0.3 % sulfur, 1.075 % ash from the aggregate dryer burner, based on 8,760 hours of use and US EPA's AP-42, 5th Edition, Section 1.11 - Waste Oil Combustion, Tables 1.11-1, 1.11-2, and 1.11-3.

Criteria Pollutant:	$\frac{120 \text{ MMBtu/hr} * 8,760 \text{ hr/yr}}{129,142 \text{ Btu/gal} * 2,000 \text{ lb/ton}}$	* Ef (lb/1,000 gal) = (ton/yr)
P M:	68.8 lb/1000 gal =	280.01 ton/yr
P M-10:	54.8 lb/1000 gal =	223.13 ton/yr
S O 2:	48.4 lb/1000 gal =	197.13 ton/yr
N O x:	19.0 lb/1000 gal =	77.33 ton/yr
V O C:	1.00 lb/1000 gal =	4.07 ton/yr
C O:	5.0 lb/1000 gal =	20.35 ton/yr

The maximum potential emissions from the aggregate dryer burner due to fuel combustion are the following:

Criteria Pollutant:		Worst Case Fuel
P M:	7.51 ton/yr	#2 Fuel Oil
P M-10:	3.92 ton/yr	Natural gas
S O 2:	286.46 ton/yr	#2 Fuel Oil
N O x:	97.91 ton/yr	Natural Gas
V O C:	2.83 ton/yr	Natural gas
C O:	43.28 ton/yr	Natural gas

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

The following calculations determine the amount of worst case emissions created by aggregate drying before controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Tables 11.1-1 and 11.1-6 for a drum mix dryer which has the capability of combusting either fuel oil or natural gas:

Pollutant:	Ef	lb/ton x	350	ton/hr x	8,760 hr/yr
			2,000	lb/ton	
Criteria Pollutant:					
	PM:	28	lb/ton =	42,924.00	ton/yr
	PM-10:	6.5	lb/ton =	9,964.50	ton/yr
	VOC:	7.62E-03	lb/ton =	11.68	ton/yr

The VOC emission factor represents the sum of the HAP emission factors from the dryer which were assumed to be VOC.

**** conveying / handling ****

The following calculations determine the amount of emissions created by material handling, based on 8,760 hours of use and AP-42, Section 13.2.4, Equation 1. The emission factor for calculating PM emissions is calculated as follows:

PM-10 Emissions:

$$E = k \cdot (0.0032)^{\frac{U}{5}} \cdot \left(\frac{U}{5} \right)^{1.3} \cdot \left(\frac{M}{2} \right)^{1.4}$$

$$= 1.32E-03 \text{ lb PM-10/ton}$$

$$2.80E-03 \text{ lb PM/ton}$$

where k = 0.35 (particle size multiplier for <10um)
0.74 (particle size multiplier for <30um)

U = 12 mph mean wind speed
M = 4.0 material moisture content (%)

$$\frac{350 \text{ ton/hr} \cdot 8,760 \text{ hrs/yr} \cdot \text{Ef (lb/ton of material)}}{2,000 \text{ lb/ton}} = (\text{ton/yr})$$

Total PM 10 Emissions: 2.03 tons/yr
Total PM Emissions: 4.29 tons/yr

**** unpaved roads ****

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2.2

I. Front End Loader

$$41 \text{ trip/hr} \times 0.059 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 42,381 \text{ mile/yr}$$

$$\begin{aligned} E_f &= k \cdot [(s/12)^a] \cdot [(W/3)^b] / [(Mdry/0.2)^c] \cdot [(365-p)/365] \cdot (S/15) \\ &= 6.64 \text{ lb PM/mile} \\ &= 1.73 \text{ lb PM-10/mile} \end{aligned}$$

- where k = 10 (particle size multiplier, PM30) (k= 2.6 for PM10)
s = 4.8 mean % silt content of unpaved plant roads
a = 0.8 Constant for PM30/PM-10
W = 29.8 tons, average vehicle weight
b = 0.5 Constant for PM30 (b = 0.4 for PM10)
Mdry = 0.2 surface material moisture content, % (default 0.2 (dry conditions) when using rainfall parameter)
c = 0.4 Constant for PM30 (c = 0.3 for PM10)
p = 125 number of days with at least 0.01 in of precipitation per year
S = 10 mph speed limit

$$\frac{6.64 \text{ lb/mi} \times 42,381 \text{ mi/yr}}{2000 \text{ lb/ton}} = 140.66 \text{ tons/yr}$$

$$\frac{1.73 \text{ lb/mi} \times 42,381 \text{ mi/yr}}{2000 \text{ lb/ton}} = 36.57 \text{ tons/yr}$$

II. Dump Trucks

$$10 \text{ trip/hr} \times 0.166 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8,760 \text{ hr/yr} = 29,083 \text{ mile/yr}$$

$$\begin{aligned} E_f &= k \cdot [(s/12)^a] \cdot [(W/3)^b] / [(Mdry/0.2)^c] \cdot [(365-p)/365] \cdot (S/15) \\ &= 6.09 \text{ lb PM/mile} \\ &= 1.58 \text{ lb PM-10/mile} \end{aligned}$$

- where k = 10 (particle size multiplier, PM30) (k= 2.6 for PM10)
s = 4.8 mean % silt content of unpaved plant roads
a = 0.8 Constant for PM30/PM-10
W = 25.1 tons, average vehicle weight
b = 0.5 Constant for PM30 (b = 0.4 for PM10)
Mdry = 0.2 surface material moisture content, % (default 0.2 (dry conditions) when using rainfall parameter)
c = 0.4 Constant for PM30 (c = 0.3 for PM10)
p = 125 number of days with at least 0.01 in of precipitation per year
S = 10 mph speed limit

$$\frac{6.09 \text{ lb/mi} \times 29,083 \text{ mi/yr}}{2000 \text{ lb/ton}} = 88.59 \text{ tons/yr}$$

$$\frac{1.58 \text{ lb/mi} \times 29,083 \text{ mi/yr}}{2000 \text{ lb/ton}} = 23.03 \text{ tons/yr}$$

Total PM Emissions From Unpaved Roads = 229.24 tons/yr
Total PM-10 Emissions From Unpaved Roads = 59.60 tons/yr

**** portable crusher ****

The following calculations determine the amount of emissions created by tertiary crushing , based on 8,760 hours of use and USEPA's AP-42 1/95), Section 11.19.2-2.

Maximum Capacity = 300 ton/hr
Ef = 0.0024 lb/ton

$$PM=PM10 = (300 \text{ ton/hr}) (0.0024 \text{ lb/ton}) (8760 \text{ hr/yr}) (1 \text{ ton}/2000 \text{ lb}) = 3.1536 \text{ ton/yr}$$

**** storage ****

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8,760 hours of use and USEPA's AP-42 (Pre 1983 Edition), Section 11.2.3.

Ef = $1.7 \cdot (s/1.5)^{0.35} \cdot (365-p)/235 \cdot (f/15)$
= 0.86 lb/acre/day
where s = 0.74 % silt
p = 125 days of rain greater than or equal to 0.01 inches
f = 15 % of wind greater than or equal to 12 mph
sc = 109,000 tons storage capacity

PM = 0.31 tons/yr P M-10: 35% of PM = 0.11 tons/yr

****cold mix VOC storage emissions ****

The following calculations determine the amount of VOC emissions created by the application of stockpile mix with 15% solvent in emulsified asphalt, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 4.5, Table 4-5-1.

VOC Emission Factor = 0.05 weight percent flash-off of cold mix
Potential Throughput (tons/yr) = 3,066,000 tons/yr stockpile mix

Potential VOC Emissions (tons/yr) = Potential Throughput (tons/yr) * wt percent flash-off

Potential VOC Emissions = 1,533.00 tons/yr

Weight percent flash-off is based on a stockpile mix consisting of 5% asphalt emulsion and 93% aggregate and was obtained from USEPA AP-42, 5th Edition, Section 4.5, Table 4.5-1.

**** summary of source emissions before controls ****

Criteria Pollutants:

P M:	43,168.56 ton/yr	
P M-10:	10,033.36 ton/yr	
S O 2:	286.46 ton/yr	
N O x:	98.51 ton/yr	
V O C:	1,547.55 ton/yr	(VOCs include HAPs from aggregate drying operation)
C O:	43.79 ton/yr	

**** source emissions after controls ****

In order to qualify for the FESOP program, this facility must limit PM-10 emissions to less than 100 tons per year and in order avoid 326 IAC 7-1.1 this facility must limit SO2 emissions to less than 25 tons per year and 10 pounds per hour. The following calculations are the acceptable limitations of fuel oils burned annually and hourly for the source.

* Emissions of PM and PM-10 from aggregate drying operations are controlled with a 99.9 % control efficiency.

Natural Gas $\frac{1,031 \text{ MMcf/yr}}{2,000 \text{ lb/ton}}$ * Ef (lb/MMcf) = (ton/yr)

PM:	7.6 lb/MMcf =	3.92E-06 ton/yr *
PM-10:	7.6 lb/MMcf =	3.92E-06 ton/yr *
SO2:	0.6 lb/MMcf =	0.31 ton/yr
NOx:	190.0 lb/MMcf =	97.91 ton/yr
VOC:	5.5 lb/MMcf =	2.83 ton/yr
CO:	84.0 lb/MMcf =	43.28 ton/yr

No. 2 Fuel Oil

$\frac{653,246 \text{ gal/yr}}{2,000 \text{ lb/ton}}$ * Ef (lb/1,000 gal) = (ton/yr)

PM:	2.0 lb/1000 gal =	6.53E-04 ton/yr
PM-10:	1.0 lb/1000 gal =	3.27E-04 ton/yr
SO2:	76.3 lb/1000 gal =	24.92 ton/yr
NOx:	20.0 lb/1000 gal =	6.53 ton/yr
VOC:	0.34 lb/1000 gal =	0.11 ton/yr
CO:	5.0 lb/1000 gal =	1.63 ton/yr

No. 2 Fuel Oil

130 gal/hr * Ef (lb/1,000 gal) = (lb/hr)

SO2: 76.3 lb/1000 gal = **9.95 lb/hr**

Re-refined Waste Oil

$\frac{1,032,136 \text{ gal/yr}}{2,000 \text{ lb/ton}}$ * Ef (lb/1,000 gal) = (ton/yr)

PM:	68.8 lb/1000 gal =	0.04 ton/yr
PM-10:	54.8 lb/1000 gal =	0.03 ton/yr
SO2:	48.4 lb/1000 gal =	25.00 ton/yr
NOx:	19.0 lb/1000 gal =	9.81 ton/yr
VOC:	1.0 lb/1000 gal =	0.52 ton/yr
CO:	5.0 lb/1000 gal =	2.58 ton/yr

Re-refined Waste Oil

206 gal/hr * Ef (lb/1,000 gal) = (lb/hr)

SO2: 48.4 lb/1000 gal = **9.99 lb/hr**

Criteria Pollutant:

P M:	0.04 ton/yr	Worst Case Fuel	Re-refined Waste Oil
P M-10:	0.03 ton/yr		Re-refined Waste Oil
S O 2:	24.92 ton/yr		No. 2 Fuel Oil
N O x:	97.91 ton/yr		Natural Gas
V O C:	2.83 ton/yr		Natural Gas
C O:	43.28 ton/yr		Natural Gas

Annual Fuel Usage Limitations

Fuel Oil: No. 2 Fuel Oil

$$\frac{7,509 \text{ Kgals}}{\text{year potential}} * \quad 8.7\% \frac{\# 2 \text{ F.O. consumed}}{\text{year limited}} \quad = \quad \frac{653.25 \text{ Kgals}}{\text{year limited}}$$

Fuel Oil: No. 2 Fuel Oil

$$\frac{8,140 \text{ Kgals}}{\text{year potential}} * \quad 12.7\% \frac{\# \text{W.O. consumed}}{\text{year limited}} \quad = \quad \frac{1,032.14 \text{ Kgals}}{\text{year limited}}$$

Primary fuel equivalence limit for re-refined waste oil based on SO2 emissions from #2 fuel oil

$$\frac{197.13 \text{ W.O. potential emissions (ton/yr)}}{8,140 \text{ W.O. oil potential usage (kgal/yr)}} \quad / \quad \frac{286.46 \# 2 \text{ distillate oil potential emissions (ton/yr)}}{7,509 \# 2 \text{ distillate oil potential usage (kgal/yr)}} \\ = \quad \frac{0.6348 \text{ Kgal \# 2 distillate oil burned}}{\text{Kgal W.O. burned}}$$

****cold mix VOC storage limitations ****

The following calculations determine the amount of VOC emissions created by the application of liquid binder for cold mix stockpiles, based on the source's use of emulsified asphalt with solvent as the liquid binder type. Emulsified asphalt with solvent is defined with the following properties:

Maximum Weight % of VOC solvent in binder	15.0 %
Weight % of VOC solvent in binder that evaporates:	46.4 %
Volume of emulsified asphalt allowed	7 % (per 326 IAC 8-5-2)

In order to qualify for the FESOP program, this source must limit VOC emissions to less than 25 tons per year. Deducting the VOC emitted from other activities, VOC solvent usage as emulsion in the liquid binder used in the production of cold mix asphalt from the plant shall be limited to less than 10.45 tons of VOC emitted per twelve (12) consecutive month period. This is equivalent to limiting the usage of emulsified asphalt with solvent liquid binder to less than 22.52 tons of VOC solvent per 12 month period, based on 46.4 percent (%) by weight of the VOC solvent in the liquid blend evaporating.

**** source emissions after controls ****

aggregate drying/mixing:		nonfugitive	
P M:	42,924 ton/yr x	0.10% emitted after controls =	42.92 ton/yr
P M-10:	9,965 ton/yr x	0.10% emitted after controls =	9.96 ton/yr
conveying/handling:		fugitive	
P M:	4.26 ton/yr x	50% emitted after controls =	2.13 ton/yr
P M-10:	2.03 ton/yr x	50% emitted after controls =	1.02 ton/yr
unpaved roads:		fugitive	
P M:	229.24 ton/yr x	50% emitted after controls =	114.62 ton/yr
P M-10:	59.60 ton/yr x	50% emitted after controls =	29.80 ton/yr
storage piles:		fugitive	
P M:	0.31 ton/yr x	50% emitted after controls =	0.16 ton/yr
P M-10:	0.11 ton/yr x	50% emitted after controls =	0.05 ton/yr
cold mix VOC storage*:		fugitive	
VOC:	10.45 ton/yr x	100% emitted after controls =	10.45 ton/yr

**** summary of source emissions after controls ****

Criteria Pollutant:	Non-Fugitive	Fugitive	Total
PM:	43.01 ton/yr	116.91 ton/yr	159.92 ton/yr
PM-10:	10.04 ton/yr	30.87 ton/yr	40.91 ton/yr
S O 2:	24.93 ton/yr	0.00 ton/yr	24.93 ton/yr
N O x:	98.51 ton/yr	0.00 ton/yr	98.51 ton/yr
V O C:	14.55 ton/yr	10.45 ton/yr	25.00 ton/yr
C O:	43.79 ton/yr	0.00 ton/yr	43.79 ton/yr

326 IAC 6-3-2 Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-3-2 for process weight rates in excess of 30 tons per hour:

$$\text{limit} = 55 * (350 ^{0.11}) - 40 = 64.76 \text{ lb/hr or } 283.66 \text{ ton/yr}$$

Since this emission limit exceeds the 326 IAC 6-1-2 and Subpart I allowable PM emission limits (see below), the requirements of 326 IAC 6-3-2 shall not apply, pursuant to 326 IAC 6-3-1(b). The source shall comply with the annual PM limit pursuant to 326 IAC 6-1-2 as the more stringent limit. Compliance with the 326 IAC 6-1-2 limit shall satisfy Subpart I and also limit the source wide PM to less than 250 tons per year and therefore, the requirements of 326 IAC 2-2 (PSD) shall not apply.

326 IAC 6-1-2, 40 CFR Part 60.90, Subpart I (Standards of Performance for Hot Mix Asphalt Plants) Compliance Calculations:

The following calculations determine compliance with 326 IAC 6-1-2 and NSPS, which limits stack emissions from asphalt plants to 0.03 gr/dscf:

$$\frac{42.92 \text{ ton/yr} *}{525,600 \text{ min/yr} *} = \frac{2000 \text{ lb/ton} *}{58,545 \text{ dscf/min}} * 7000 \text{ gr/lb} = 0.02 \text{ gr/dscf} \quad (\text{will comply})$$

Allowable particulate emissions under NSPS equate to 65.94 tons per year. 15.05 lbs/hr

PM emissions from the aggregate dryer are controlled to 42.92 tons/yr < 65.94 tons/yr (Will comply)

**** miscellaneous ****

The source is limiting PM-10 emissions to 65.0 ton per year to allow for future growth.

PM-10 Emission Limit:

$$65.0 \text{ tons PM-10/yr} = 14.84 \text{ lb/hr, based on 8,760 hr/yr}$$

$$0.13 \text{ lb PM10/ton asphalt, based on 1,000,000 tons asphalt /yr}$$

PM-10 emissions from the aggregate dryer are controlled to 9.96 tons/yr < 65.0 tons/yr (Will comply)

Hazardous Air Pollutants (HAPs)

**** aggregate dryer burner****

The following calculations determine the amount of HAP emissions created by the combustion of distillate fuel oil before & after controls @ 0.5 % sulfur, from the aggregate dryer burner, based on 8760 hours of use and US EPA's AP-42, 5th Edition, Section 1.3 - Fuel Oil Combustion, Table 1.3-11.

Hazardous Air Pollutants (HAPs):	120 MMBtu/hr * 8760 hr/yr 2,000 lb/ton	* Ef (lb/10 ¹² Btu) = (ton/yr)	Potential To Emit	Limited Emissions
Arsenic:	4 lb/10 ¹² Btu =		2.10E-03 ton/yr	2.10E-06 ton/yr
Beryllium:	3 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
Cadmium:	3 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
Chromium:	3 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
Lead:	9 lb/10 ¹² Btu =		4.73E-03 ton/yr	4.73E-06 ton/yr
Manganese:	6 lb/10 ¹² Btu =		3.15E-03 ton/yr	3.15E-06 ton/yr
Mercury:	3 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
Nickel:	3 lb/10 ¹² Btu =		1.58E-03 ton/yr	1.58E-06 ton/yr
	Total HAPs =		1.79E-02 ton/yr	1.79E-05 ton/yr

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

The following calculations determine the amount of HAP emissions created by aggregate drying before & after controls, based on 8,760 hours of use and USEPA's AP-42, 5th Edition, Section 11.1 - Hot Mix Asphalt Plants, Table 11.1-10 for a drum mix dryer which can be fired with either fuel oil or natural gas. The HAP emission factors represent the worst case emissions (fuel oil combustion).

Pollutant:	Ef	lb/ton x	350	ton/hr x	8760 hr/yr
			2000	lb/ton	

Hazardous Air Pollutants (HAPs):		Potential To Emit	Limited Emissions
Acetaldehyde:	3.2E-04 lb/ton =	0.49 ton/yr	0.49 ton/yr
Benzene:	2.8E-04 lb/ton =	0.43 ton/yr	0.43 ton/yr
Ethylbenzene:	2.2E-03 lb/ton =	3.37 ton/yr	3.37 ton/yr
Formaldehyde:	7.4E-04 lb/ton =	1.13 ton/yr	1.13 ton/yr
PAH (total) HAPs:*	1.1E-04 lb/ton =	0.17 ton/yr	0.17 ton/yr
Quinone:	2.7E-04 lb/ton =	0.41 ton/yr	0.41 ton/yr
Toluene:	1.0E-03 lb/ton =	1.53 ton/yr	1.53 ton/yr
Xylene:	2.7E-03 lb/ton =	4.14 ton/yr	4.14 ton/yr
	7.62E-03 Total HAPs =	11.68 ton/yr	11.68 ton/yr

**** summary of source HAP emissions potential to emit ****

Hazardous Air Pollutants (HAPs):

Arsenic:	0.002 ton/yr
Acetaldehyde:	0.491 ton/yr
Benzene:	0.429 ton/yr
Beryllium:	0.002 ton/yr
Cadmium:	0.002 ton/yr
Chromium:	0.002 ton/yr
Ethylbenzene:	3.373 ton/yr
Formaldehyde:	1.134 ton/yr
Lead:	0.005 ton/yr
Manganese:	0.003 ton/yr
Mercury:	0.002 ton/yr
Nickel:	0.002 ton/yr
PAH (total) HAPs:*	0.17 ton/yr
Quinone:	0.41 ton/yr
Toluene:	1.53 ton/yr
Xylene:	4.14 ton/yr
Total:	11.698 ton/yr

**** summary of source HAP limited emissions ****

Hazardous Air Pollutants (HAPs):

Acetaldehyde:	0.491 ton/yr
Arsenic:	0.000 ton/yr
Benzene:	0.429 ton/yr
Beryllium:	0.000 ton/yr
Cadmium:	0.000 ton/yr
Chromium:	0.000 ton/yr
Ethylbenzene:	3.373 ton/yr
Formaldehyde:	1.134 ton/yr
Lead:	0.000 ton/yr
Manganese:	0.000 ton/yr
Mercury:	0.000 ton/yr
Nickel:	0.000 ton/yr
PAH (total) HAPs:*	0.17 ton/yr
Quinone:	0.41 ton/yr
Toluene:	1.53 ton/yr
Xylene:	4.14 ton/yr
Total:	11.680 ton/yr