



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: April 16, 2008

RE: Asphalt Cutbacks / 089-25522-00379

FROM: Matthew Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
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100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Asphalt Cutbacks, Inc.
3000 Gary Avenue
East Chicago, Indiana 46312**

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

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

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

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.

Operation Permit No.: F089-25522-00379	
Original signed by:	Issuance Date: April 17, 2008
Alfred C. Dumauval, Ph. D., Section Chief Permits Branch Office of Air Quality	Expiration Date: April 17, 2018

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SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary asphalt processing source.

Source Address:	3000 Gary Avenue, East Chicago, Indiana 46312
Mailing Address:	3000 Gary Avenue, East Chicago, Indiana 46312
General Source Phone Number:	(219) 398-4230
SIC Code:	2999
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone standard Nonattainment for PM 2.5 standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) One (1) process tank for asphalt blowing, identified as PT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 23.15 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (b) One (1) process tank for asphalt blowing, identified as PT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 12.50 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (c) One (1) knockout box for the asphalt blowing process, identified as KOT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-1 for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (d) One (1) knockout box for the asphalt blowing process, identified as KOT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-4 for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (e) Two (2) natural gas-fired asphalt heaters, identified as S-2, constructed prior to 1996, and S-5, constructed in 1996, rated at eighteen million (18,000,000) British thermal units per hour, each, and exhausting through Stack S-2 and S-5.
- (f) Four (4) asphalt storage tanks, identified as ST-19 through ST-22, with a maximum capacity of 40,000 gallons each and constructed in 1996.

- (g) Two (2) asphalt storage tanks, identified as ST-23 and ST-24, with a maximum capacity of 24,000 gallons each and constructed in 1990.
- (h) Two (2) asphalt storage tanks, identified as ST-25 and ST-26, with a maximum capacity of 25,000 gallons each and constructed in 1990.
- (i) Four (4) industrial cutback storage tanks, identified as St-61 through St-64, with a maximum capacity of 19,000 gallons each and constructed in 1990.
- (j) One (1) VM&P storage tank, identified as ST-70, with a maximum capacity of 15,000 gallons and constructed in 1990.
- (k) One (1) VM&P storage tank, identified as ST-71, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (l) One (1) mineral spirits storage tank, identified as ST-72, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (m) One (1) mineral spirits storage tank, identified as ST-73, with a maximum capacity of 15,000 gallons and constructed in 1990.

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

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
 - (1) One (1) heater, identified as S-3, rated at 2.50 million British thermal units per hour;
 - (2) One (1) boiler, constructed prior to 1983, rated at 7.50 million British thermal units per hour [326 IAC 6-2-2].
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 British thermal units per hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 British thermal units per hour (One (1) natural gas-fired stand-by generator).
- (c) Combustion source flame safety purging on startup.
- (d) Purge double block and bleed valves.
- (e) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (f) Paved roads and unpaved roads [326 IAC 6.8-10].

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

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

SECTION B GENERAL CONDITIONS

B.1 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.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F089-25522-00379, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal 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.

B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

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

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

B.5 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.6 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.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

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

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

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

B.9 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 no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

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

B.11 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) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.12 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 describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and Northwest Regional 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 Number: 1-800-451-6027 (ask for Office of Air Quality,
Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

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

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

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

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F089-25522-00379 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 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.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 Provisions), 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.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 Federally Enforceable State Operating Permit 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.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 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 an "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
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- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being 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
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Indianapolis, Indiana 46204-2251

Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)

77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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

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

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

B.20 Source Modification 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][IC 13-17-3-2][IC 13-30-3-1]

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

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

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

B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)] [326 IAC 2-1.1-9]

- (a) The requirements to obtain a permit modification under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.25 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.
- (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 that 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]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 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 Dust Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 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 6.8-10-3 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.

C.7 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
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

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

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

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

C.8 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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.10 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 within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

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

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

C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

- (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
 - (1) monitoring data;
 - (2) monitor performance data, if applicable; and
 - (3) corrective actions taken.

C.15 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 twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

C.16 Emission Statement [326 IAC 2-6]

- (a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit an emission statement by July 1 following a calendar year when the source emits oxides of nitrogen or volatile organic compounds into the ambient air equal to or greater than twenty-five (25) tons. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "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
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

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

Stratospheric Ozone Protection

C.19 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 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) One (1) process tank for asphalt blowing, identified as PT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 23.15 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (b) One (1) process tank for asphalt blowing, identified as PT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 12.50 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (c) One (1) knockout box for the asphalt blowing process, identified as KOT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-1 for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (d) One (1) knockout box for the asphalt blowing process, identified as KOT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-4 for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (e) Two (2) natural gas-fired asphalt heaters, identified as S-2, constructed prior to 1996, and S-5, constructed in 1996, rated at eighteen million (18,000,000) British thermal units per hour, each, and exhausting through Stack S-2 and S-5.

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

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

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

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

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the VOC emissions from the asphalt blowing process shall not exceed 0.305 pounds per ton of asphalt after control by the thermal oxidizer, and the asphalt blowing rate shall not exceed 146,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Pursuant to 326 IAC 8-1-6 and FESOP 089-8619-00379, issued on March 26, 1998, the thermal oxidizers, S-1 and S-4, for VOC control shall be in operation at all times when the corresponding asphalt blowing processes are in operation. The thermal oxidizers, S-1 and S-4, will serve as the best available control technology (BACT) for the asphalt blowing processes. The overall capture and destruction efficiency shall be at least equal to 89.9% for VOC and at least 98.9% for PM and PM₁₀.

Compliance with this limit shall ensure that the provisions of 326 IAC 2-7 do not apply.

D.1.3 Particulate Matter (PM) [326 IAC 6.8] [40 CFR 60.472] [326 IAC 12] [326 IAC 2-2] [326 IAC 2-8-4]

- (a) Pursuant to FESOP 089-8619-00379, issued on March 26, 1998, PM emissions from the asphalt blowing processes exhausting through Stack S-1 shall not exceed 1.63 pounds per hour. PM emissions from the asphalt blowing processes exhausting through Stack S-4, shall not exceed 1.24 pounds per hour. This will limit the potential to emit PM from the entire source to less than one hundred (100) tons per year.
- (b) Pursuant to 326 IAC 6.8-1, particulate matter (PM) emissions from the asphalt blowing facilities exhausting to Stack S-1 shall be limited to 0.03 grains per dry standard cubic foot. This limit is equivalent to 1.63 pounds per hour from Stack S-1 when Stack S-1 is operating at a flow rate of 6,346 dry standard cubic feet per minute.
- (c) Pursuant to 326 IAC 6.8-1, particulate matter (PM) from the asphalt blowing facilities exhausting to Stack S-4 shall be limited to 0.03 grains per dry standard cubic foot. This limit is equivalent to 1.24 pounds per hour from Stack S-4 when Stack S-4 is operating at a flow rate of 4,810 dry standard cubic feet per minute.
- (d) Pursuant to 326 IAC 12 (New Source Performance Standard) and 40 CFR 60.470, Subpart UU, the blow still exhausting to Stack S-4 may operate:
 - (1) with a catalyst and meet the PM emission limitation of 0.67 kilograms per megagram of asphalt charged to the still.
 - (2) without a catalyst and meet the PM emission limitation of 0.60 kilograms per megagram of asphalt charged to the still.

Compliance with the above limits shall limit the total source-wide PM emissions to less than 100 tons per year. Compliance with this limit will satisfy 326 IAC 2-8-4 and render the requirements of Part 70 [326 IAC 2-7] and 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.1.4 Opacity [326 IAC 12] [40 CFR 60.472]

- (a) Pursuant to 326 IAC 12 and 40 CFR 60.472, the Permittee shall not cause to be discharged into the atmosphere from any asphalt storage tank exhaust gases with opacity greater than zero percent (0%), except for one (1) consecutive fifteen (15) minute period in any twenty-four (24) hour period when the transfer lines are being blown for clearing.
- (b) Pursuant to 326 IAC 12 and 40 CFR 60.472, the Permittee shall not cause to be discharged into the atmosphere from any mineral handling and storage facility with opacity greater than one percent (1%).

D.1.5 Particulate Matter (PM₁₀) [326 IAC 2-8] [326 IAC 2-3] [326 IAC 6.8-1]

Pursuant to 326 IAC 2-8-4 and FESOP 089-8619-00379, issued on March 26, 1998, PM₁₀ emissions from the asphalt blowing processes exhausting through Stack S-1 shall not exceed 1.63 pounds per hour. PM₁₀ emissions from the asphalt blowing processes exhausting through Stack S-4 shall not exceed 1.24 pounds per hour.

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

Preventive Maintenance Plans, in accordance with Section B - Preventive Maintenance Plan, of this permit, are required for the asphalt blowing processes including two (2) process tanks (PT -1 and PT-2), two (2) knock out boxes (KOT-1 and KOT-2) and any control devices.

Compliance Determination Requirements

D.1.7 Testing Requirements [326 IAC 2-1.1-11] [326 IAC 2-8-5(a)(1),(4)] [326 IAC 12]

- (a) In order to demonstrate compliance with Condition D.1.2, the Permittee shall conduct a performance test for VOC for the thermal oxidizers utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) In order to demonstrate compliance with Conditions D.1.3, D.1.4 and D.1.5, the Permittee shall perform PM, PM₁₀ and opacity testing for the asphalt blowing process operations utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM₁₀ includes filterable and condensible PM₁₀. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.8 Particulate (PM) [326 IAC 12] [326 IAC 60.470]

The Permittee shall determine compliance with the particulate matter standards in 326 IAC 12, 40 CFR 60.470, Subpart UU, as follows:

The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (cs \times Qsd) / (P \times K)$$

Where:

- E = emission rate of particulate matter, kg/Mg
cs = concentration of particulate matter, g/dscm (g/dscf)
Qsd = volumetric flow rate of effluent gas, dscm/hr (dscf/hr)
P = asphalt charging rate, Mg/hr (ton/hr)
K = conversion factor, 1000 g/kg [907.2/(g-Mg)/(kg-ton)]

Particulate matter concentration (cs) and volumetric flow rate (Qsd) of the effluent gas shall be determined using Method 5A of 326 IAC 12, (40 Cfr 60, Appendix A). The sampling time for each run shall be at least ninety (90) minutes or the duration of the coating or non-coating blow, whichever is greater. The sample volume for each run shall be 2.25 dcfm.

The asphalt charging rate (P) shall be computed for each run using the following equation:

$$P = (V \times d) / (K' \times \theta)$$

Where:

- P = asphalt charging rate, Mg/hr (ton/hr)
V = volume of asphalt charged, m³ (ft³), measured to within ten percent (10%)
d = density of asphalt, kg/m³ (lb/ft³)
K' = conversion factor, 1000 kg/Mg (2000 lb/ton)
θ = duration of test run, hr

The density (d) of the asphalt shall be computed using the following equation:

$$d = K1 - K2Ti$$

Where:

- d = density of asphalt, kg/m³ (lb/ft³)
K1 = 1056.1 kg/m³
K2 = 0.6176 kg/(m³ °C)
Ti = Temperature at the start of the blow (°C)

Opacity shall be determined using Method 9 of 326 IAC 12 (40 CFR 60, Appendix A).

D.1.9 Parametric Monitoring

- (a) The Permittee shall determine the appropriate duct pressure or fan amperage from the most recent valid stack test that demonstrates compliance with limits in Conditions D.1.2, D.1.3, D.1.4 and D.1.5 as approved by IDEM.
- (b) The duct pressure or fan amperage shall be observed at least once per day when the thermal oxidizer is in operation. On or after the date the approved stack test results are available, the duct pressure or fan amperage shall be maintained within the normal range as established in most recent compliant stack test.

D.1.10 Thermal Oxidizer Temperature

- (a) A continuous monitoring system shall be calibrated, maintained and operated on the thermal oxidizers for measuring operating temperature. The output of this system shall be recorded as a three- (3-) hour average. From the date of issuance of this permit until the next approved stack test results are available, the Permittee shall operate the thermal oxidizer exhausting to stack S-4 or above the three- (3-) hour average temperature of 1,220 °F and the thermal oxidizer exhausting to Stack S-1 at or above the three- (3-) hour average temperature of 1,260 °F.
- (b) The Permittee shall determine the three- (3-) hour average temperature from the most recent valid stack test that demonstrates compliance with limits in Conditions D.1.2, D.1.3, D.1.4 and D.1.5 as approved by IDEM.
- (c) On and after the date the next approved stack test results are available, the Permittee shall operate the thermal oxidizers at or above the three- (3-) hour average temperatures as observed during the compliant stack test.

D.1.11 Particulate Matter (PM and PM₁₀) and Volatile Organic Compounds (VOC) Control

Pursuant to FESOP 089-8619-00379 issued on March 26, 1998, the Permittee shall operate the thermal oxidizers to achieve compliance with Conditions D.1.2, D.1.3, D.1.4 and D.1.5.

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

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the asphalt blowing process stack (S-1 and S-4) exhaust shall be performed during normal daylight operations once per day. A trained employee shall record whether emissions are normal or abnormal.
- (b) For process operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

D.1.13 Thermal Oxidizer Inspections

Pursuant to FESOP 089-8619-00379, issued on March 26, 1998, daily visible inspections of the flame presence shall be conducted on both thermal oxidizers (S-1 and S-4) while in operation.

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

D.1.14 Record Keeping Requirement

- (a) To document compliance with Conditions D.1.2, D.1.3, D.1.4 and D.1.5, the Permittee shall maintain records in accordance with (1) through (5) below. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
- (1) The total monthly coating and saturant asphalt throughput
 - (2) To document compliance with Condition D.1.10, the Permittee shall maintain continuous temperature records (on a three- (3-) hour average basis) for the thermal oxidizer and the average temperature used to demonstrate compliance during the most recent compliant stack test.
 - (3) To document compliance with Condition D.1.9, the Permittee shall maintain daily records of the duct pressure or fan amperage.
 - (4) To document compliance with Condition D.1.11, the Permittee shall maintain records of visible emission notations of the asphalt blowing stack exhaust once per day.
 - (5) To document compliance with Conditions D.1.12, the Permittee shall maintain records of the daily visible inspections of the flame presence on both thermal oxidizers (S-1 and S-4) while in operation.
- (b) To document compliance with Conditions D.1.2, D.1.3, D.1.4 and D.1.5, the Permittee shall maintain records of any additional inspections described by the Preventive Maintenance Plan.
- (c) 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 the throughput limit in Condition D.1.2(a) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) Four (4) asphalt storage tanks, identified as ST-19 through ST-22, with a maximum capacity of 40,000 gallons each and constructed in 1996.
- (g) Two (2) asphalt storage tanks, identified as ST-23 and ST-24, with a maximum capacity of 24,000 gallons each and constructed in 1990.
- (h) Two (2) asphalt storage tanks, identified as ST-25 and ST-26, with a maximum capacity of 25,000 gallons each and constructed in 1990.
- (i) Four (4) industrial cutback storage tanks, identified as St-61 through St-64, with a maximum capacity of 19,000 gallons each and constructed in 1990.
- (j) One (1) VM&P storage tank, identified as ST-70, with a maximum capacity of 15,000 gallons and constructed in 1990.
- (k) One (1) VM&P storage tank, identified as ST-71, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (l) One (1) mineral spirits storage tank, identified as ST-72, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (m) One (1) mineral spirits storage tank, identified as ST-73, with a maximum capacity of 15,000 gallons and constructed in 1990.

(The information describing the process contained in this emissions unit 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.2.1 Record Keeping Requirements [40 CFR 60.116b] [326 IAC 12]

- (a) Pursuant to 40 CFR 60.116b, the Permittee shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of each of the storage vessels.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
 - (1) One (1) boiler, constructed prior to 1983, rated at 7.50 million British thermal units per hour [326 IAC 6.8-1]

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

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

D.3.1 Particulate [326 IAC 6.8-1]

Pursuant to 326 IAC 6.8-1, particulate matter (PM) emissions from the one (1) insignificant boiler, operating on natural gas only, shall be limited to 0.01 grain per dry standard cubic foot (dscf).

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

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

Source Name: Asphalt Cutbacks, Inc.
Source Address: 3000 Gary Avenue, East Chicago, Indiana 46312
Mailing Address: 3000 Gary Avenue, East Chicago, Indiana 46312
FESOP Permit No.: F089-25522-00379

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Asphalt Cutbacks, Inc.
Source Address: 3000 Gary Avenue, East Chicago, Indiana 46312
Mailing Address: 3000 Gary Avenue, East Chicago, Indiana 46312
FESOP Permit No.: F089-25522-00379

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|--|

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Asphalt Cutbacks, Inc.
 Source Address: 3000 Gary Avenue, East Chicago, Indiana 46312
 Mailing Address: 3000 Gary Avenue, East Chicago, Indiana 46312
 FESOP Permit No.: F089-25522-00379
 Facility: Asphalt blowing process
 Parameter: Total asphalt blowing rate (total saturant and coating asphalt throughput)
 Limit: 146,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to 22.3 tons emitted per twelve (12) consecutive month period for the asphalt blowing process and less than twenty-five (25) tons emitted per twelve (12) consecutive month period for the entire source

YEAR: _____

Month	Total Asphalt Blowing Rate (tons)	Total Asphalt Blowing Rate (tons)	Total Asphalt Blowing Rate (tons)
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- 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**

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

Source Name: Asphalt Cutbacks, Inc.
 Source Address: 3000 Gary Avenue, East Chicago, Indiana 46312
 Mailing Address: 3000 Gary Avenue, East Chicago, Indiana 46312
 FESOP Permit No.: F089-25522-00379

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

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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
Renewal

Source Background and Description

Source Name:	Asphalt Cutbacks, Inc.
Source Location:	3000 Gary Avenue, East Chicago, Indiana 46312
County:	Lake
SIC Code:	2999
Permit Renewal No.:	F089-25522-00379
Permit Reviewer:	Anne-Marie C. Hart

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Asphalt Cutbacks, Inc. relating to the operation of an asphalt processing source.

History

On November 13, 2007, Asphalt Cutbacks, Inc. submitted applications to the OAQ requesting to renew its operating permit. Asphalt Cutbacks, Inc. was issued a FESOP Renewal F089-15784-00379 on August 12, 2003.

Permitted Emission Units and Pollution Control Equipment

- (a) One (1) process tank for asphalt blowing, identified as PT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 23.15 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (b) One (1) process tank for asphalt blowing, identified as PT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using a 12.50 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (c) One (1) knockout box for the asphalt blowing process, identified as KOT-1, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-1 for VOC and particulate control, constructed prior to 1980, and exhausting through Stack S-1.
- (d) One (1) knockout box for the asphalt blowing process, identified as KOT-2, with a maximum capacity of two hundred (200) tons of asphalt per 24 hour period, using the thermal oxidizer identified as S-4 for VOC and particulate control, constructed in 1996, and exhausting through Stack S-4.
- (e) Two (2) natural gas-fired asphalt heaters, identified as S-2, constructed prior to 1996, and S-5, constructed in 1996, rated at eighteen million (18,000,000) British thermal units per hour, each, and exhausting through Stack S-2 and S-5.
- (f) Four (4) asphalt storage tanks, identified as ST-19 through ST-22, with a maximum capacity of 40,000 gallons each and constructed in 1996.

- (g) Two (2) asphalt storage tanks, identified as ST-23 and ST-24, with a maximum capacity of 24,000 gallons each and constructed in 1990.
- (h) Two (2) asphalt storage tanks, identified as ST-25 and ST-26, with a maximum capacity of 25,000 gallons each and constructed in 1990.
- (i) Four (4) industrial cutback storage tanks, identified as St-61 through St-64, with a maximum capacity of 19,000 gallons each and constructed in 1990.
- (j) One (1) VM&P storage tank, identified as ST-70, with a maximum capacity of 15,000 gallons and constructed in 1990.
- (k) One (1) VM&P storage tank, identified as ST-71, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (l) One (1) mineral spirits storage tank, identified as ST-72, with a maximum capacity of 25,000 gallons and constructed in 1990.
- (m) One (1) mineral spirits storage tank, identified as ST-73, with a maximum capacity of 15,000 gallons and constructed in 1990.

Insignificant Activities

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.
 - (1) One (1) heater, identified as S-3, rated at 2.50 million British thermal units per hour;
 - (2) One (1) boiler, constructed prior to 1983, rated at 7.50 million British thermal units per hour [326 IAC 6.8-1-2].
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 British thermal units per hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 British thermal units per hour (One (1) natural gas-fired stand-by generator).
- (c) Combustion source flame safety purging on startup.
- (d) Purge double block and bleed valves.
- (e) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (f) Paved roads and unpaved roads [326 IAC 6.8-10].

Existing Approvals

Since the issuance of the FESOP F089-15784-00379 issued on August 12, 2003, the source has constructed or has been operating under the following approvals as well:

- (a) Administrative Amendment No. 089-19538-00379 issued January 28, 2005; and
- (b) Administrative Amendment No. 089-21497-00379 issued July 20, 2005.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous registrations and permits are superseded by this permit.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Lake County

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Nonattainment Subpart 2 Moderate effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which was revoked effective June 15, 2005.	

- (a) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability – Entire Source section.
- (b) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
 - (1) On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO_x threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for nonattainment new source review. See the State Rule Applicability for the source section.

- (2) VOC and NO_x emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (c) Lake County has been classified as attainment or unclassifiable in Indiana for PM₁₀, SO₂, CO and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability – Entire Source section.
- (d) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
- (e) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	1117.57
PM-10	1119.08
SO ₂	0.22
VOC	173.52
CO	30.04
NO _x	35.76

HAPs	tons/year
Hexane	0.64
Total	0.64

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of PM₁₀ and VOC is equal to or greater than 100 tons per year. The source is subject to the provisions of 326 IAC 2-7. However, the source has agreed to limit their PM₁₀ and VOC emissions to less than Title V levels, therefore the source will be issued a FESOP.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than 100 tons per year.

- (c) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is less than twenty-five (25) tons per year.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-7, fugitive emissions are not counted toward the determination of Part 70 applicability.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	Not Reported
PM-10	1
SO ₂	Not Reported
VOC	0
CO	0
NO _x	1

Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/emission unit	Potential To Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Thermal Oxidizer S-1	0.19	0.77	Negligible	0.56	8.52	10.14	0.19
Thermal Oxidizer S-4	0.10	0.42	Negligible	0.30	4.60	5.48	0.10
Asphalt Heater S-2	0.15	0.60	Negligible	0.43	6.62	7.88	0.15
Asphalt Heater S-5	0.15	0.60	Negligible	0.43	6.62	7.88	0.15
Insignificant Activities	Negligible	0.33	Negligible	0.24	3.68	4.38	Negligible
Asphalt Processing	12.23	12.23	0.00	19.04	0.00	0.00	0.00
Total Emissions	12.90	14.95	0.22	21.00	30.04	35.76	0.67

- (a) This existing stationary source is not major for PSD because the emissions of each criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.
- (b) This existing stationary source is not major for Emission Offset because the emissions of the nonattainment pollutants, VOC, NO_x and SO₂, are less than one hundred (<100) tons per year.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) The requirements of the New Source Performance Standard for Hot Mix Asphalt Facilities, 40 CFR 60.90, Subpart I, are not included in the permit because this source is not a hot mix asphalt facility as defined in 40 CFR 60.91.
- (b) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after June 11, 1973 and Prior to May 19, 1978, 40 CFR 60.110, Subpart K, are not included in the permit for the storage tanks identified as ST-19 through ST-26, ST-61 through ST-64, and ST-70 through ST-73. Construction for these units commenced after May 19, 1978.
- (c) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction or Modification Commenced after May 18, 1978 and Prior to July 23, 1984, 40 CFR 60.110a, Subpart Ka, are not included in the permit for the storage tanks identified as ST-19 through ST-26, ST-61 through ST-64, and ST-70 through ST-73. Construction for these units commenced after July 23, 1984.
- (d) The requirements of the New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, 40 CFR 60.110b, Subpart Kb, are not included in the permit for the storage tanks identified as ST-61 through ST-64, ST-70 and ST-73. These units' capacities are less than seventy-five (75) cubic meters.
- (e) Storage tanks ST-71, ST-72 and ST-23 through ST-26 are subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (40 CFR 60, Subpart Kb), which is incorporated by reference as 326 IAC 12. Storage tanks ST-71, ST-72 and ST-23 through ST-26 are storage tanks with capacities greater than seventy-five (75) cubic meters and less than one hundred fifty-one (151) cubic meters and storing liquid with a maximum true vapor pressure less than 15.0 kiloPascals.

Nonapplicable portions of the NSPS will not be included in the permit. Storage tanks ST-71, ST-72 and ST-23 through ST-26 are subject to the following portions of Subpart Kb:

- (1) 40 CFR 60.116b

- (f) Storage tanks ST-19 through ST-22 are subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (40 CFR 60, Subpart Kb), which is incorporated by reference as 326 IAC 12. Storage tanks ST-19 through ST-22 are storage tanks with capacities greater than one hundred fifty-one (151) cubic meters and storing liquid with a maximum true vapor pressure less than 3.5 kiloPascals.

Nonapplicable portions of the NSPS will not be included in the permit. Storage tanks ST-19 through ST-22 are subject to the following portions of Subpart Kb:

- (1) 40 CFR 60.116b

- (g) The requirements of the New Source Performance Standard for Asphalt Processing and Asphalt Roofing Manufacture, 40 CFR 60.470, Subpart UU, are not included in the permit for the one (1) process tank identified as PT-1. Construction of this unit commenced prior to November 18, 1980.

- (h) The one (1) process tank identified as PT-2 is subject to the New Source Performance Standard for Asphalt Processing and Asphalt Roofing Manufacture (40 CFR 60.470, Subpart UU), which is incorporated by reference as 326 IAC 12. Construction for this unit commenced after November 18, 1980.

Nonapplicable portions of the NSPS will not be included in the permit. Process tank PT-2 is subject to the following portions of Subpart Kb:

- (1) 40 CFR 60.470
- (2) 40 CFR 60.471
- (3) 40 CFR 60.472
- (4) 40 CFR 60.473
- (5) 40 CFR 60.474

- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in this permit renewal.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source, constructed after August 7, 1977, is not one of the twenty-eight (28) source categories and has a controlled potential to emit PM/PM₁₀ less than 250 tons per year. Therefore, this source is not a major source pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration).

326 IAC 2-3 (Emissions Offset)

Pursuant to 326 IAC 2-8, PM₁₀ and VOC are limited to less than 100 and 25 tons per year, respectively. Therefore, this source is not a major source pursuant to 326 IAC 2-3.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it has the potential to emit greater than twenty-five (25) tons of NO_x and VOC in Lake County. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3, an emission statement must be submitted annually by July 1 every year. Therefore, the next emission statement for this source must be submitted by July 1, 2008. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in the 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.

326 IAC 2-8 (FESOP)

Pursuant to 326 IAC 2-8 (FESOP), the VOC emissions from the entire source shall be limited to less than twenty-five (25) tons per year and the PM₁₀ emissions shall be limited to less than one hundred (100) tons per year.

- (a) PM₁₀ emissions from the asphalt blowing processes exhausting through Stack S-1 shall not exceed 1.63 pounds per hour (7.14 tons per year) and PM₁₀ emissions from the

asphalt blowing processes exhausting through Stack S-4 shall not exceed 1.24 pounds per hour (5.43 tons per year). This will limit the potential to emit PM₁₀, including all other units at the source, to less than one hundred (100) tons per year from the entire source. Therefore, the 326 IAC 2-7 (Part 70 Permit Program) do not apply. See 326 IAC 6.8-1-2 section below.

- (b) Operation of the thermal oxidizers at all times the asphalt blowing processes are in operation will result in VOC emissions of no more than twenty-five (25) tons per year. The VOC emissions from the blow still shall not exceed 0.305 pounds per ton of asphalt after control by the thermal oxidizer. The total asphalt blowing rate (total saturant and coating asphalt throughput) shall not exceed 146,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. This will limit the potential to emit VOC, including all units at the source, to no more than 22.3 tons per year for the asphalt blowing process and less than twenty-five (25) tons per year for the entire source. Thus the requirements of 326 IAC 2-7 (Part 70 Permit Program) are not applicable.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants):

The entire source will emit less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)

Pursuant to 326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter), the average instantaneous opacity of fugitive particulate emissions from paved roads shall not exceed ten percent (10%). Determination of average instantaneous opacity shall be determined by 326 IAC 6.8-10-3(1).

State Rule Applicability – Individual Facilities

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

Pursuant to 326 IAC 6-3-2, the particulate emissions from the asphalt blowing facilities shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

$$P = 8.33 \text{ tons per hour}$$

$$E = 16.93 \text{ pounds per hour}$$

However, the source is located in Lake County with a potential to emit particulate greater than one hundred (100) tons per year. Therefore, the source is subject to 326 IAC 6.8-1 (Particulate Matter Limitations for Lake County). Pursuant to 326 IAC 6-3-1(c)(3), if the limit established in 326 IAC 6.8 is more stringent than the limit established in 326 IAC 6-3, the limit established in 326 IAC 6-3 shall not apply.

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

- (a) Pursuant to 326 IAC 6.8-1 (Particulate Matter Limitations for Lake County), particulate matter emissions from the asphalt blowing facilities shall not exceed 0.03 grains per dry standard cubic foot (gr/dscf).
- (1) This limit is equivalent to 1.63 pounds per hour from Stack S-1 when Stack S-1 is operating at a flow rate of 6,346 dry standard cubic feet per minute. The potential

PM emissions from Stack S-1, after controls, are 0.699 pounds per hour (0.384 lb/hr worst case hourly PM emissions after controls + 0.315 lb/hr from thermal oxidizer S-1 and the two insignificant natural gas-fired combustion sources). The thermal oxidizer shall be in operation at all times the blowing process exhausting through Stack S-1 in order to comply with this limit.

(2) This limit is equivalent to 1.24 pounds per hour from Stack S-4 when Stack S-4 is operating at a flow rate of 4,810 dry standard cubic feet per minute. The potential PM emissions from Stack S-4, after controls, are 0.504 pounds per hour (0.384 lb/hr worst case hourly PM emissions after controls + 0.112 lb/hr from the thermal oxidizer S-4). The thermal oxidizer shall be in operation at all times the blowing process exhausting through Stack S-4 in order to comply with this limit.

(b) Pursuant to 326 IAC 6.8-1-2(b)(2), particulate matter (PM) emissions from the one (1) insignificant boiler, operating on natural gas only, shall be limited to 0.01 grain per dry standard cubic foot (gr/dscf). This limit is equal to 0.05 ton of PM per year. The potential PM emissions from the insignificant boiler are 0.06 tons per year. Therefore, this boiler is able to comply with the limit.

326 IAC 8-1-6 (New Facilities: General Reduction Requirements)

The potential to emit VOC before controls for the asphalt blowing process is greater than twenty-five (25) tons per year. Pursuant to FESOP 089-8619-00379, issued March 26, 1998, the thermal oxidizers, S-1 and S-4, will serve as the best available control technology (BACT) for the asphalt blowing processes. The overall capture and destruction efficiency shall be no less than 98.9 percent for PM and PM₁₀ and 88.9 percent for VOC.

Testing Requirements

Emission Unit	Control Device	Pollutant	Frequency of Testing	Limit or Requirement
Asphalt Blowing Process	Thermal Oxidizers S-1 and S-4	VOC	Once every five (5) years from date of the most recent valid compliance demonstration	0.305 pounds per ton of asphalt
Asphalt Blowing Process	Thermal Oxidizer S-1	PM ₁₀	Once every five (5) years from the date of valid compliance demonstration	1.63 pounds per hour
Asphalt Blowing Process	Thermal Oxidizer S-4	PM ₁₀	Once every five (5) years from the date of valid compliance demonstration	1.24 pounds
Asphalt Blowing Process	Thermal Oxidizers S-1 and S-4	PM	Once every five (5) years from the date of valid compliance demonstration	0.03 grains per dry standard cubic foot
Asphalt Blowing Process	Thermal Oxidizer S-4	PM	Once every five (5) years from the date of valid compliance demonstration	0.67 kilograms per megagram with a catalyst; 0.60 kilograms per megagram without a catalyst

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a 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 Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

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

The asphalt blowing processes including the process tanks (PT-1 and PT-2), knock-out boxes (KOT-1 and KOT-2) and thermal oxidizers (S-1 and S-4) have applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of the asphalt blowing process stack (S-1 and S-4) exhaust shall be performed during normal daylight operations once per day. A trained employee shall record whether emissions are normal or abnormal. For process operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions and Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.
- (b) Daily visible inspections of the flame presence shall be conducted on both thermal oxidizers (S-1 and S-4) while in operation.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the thermal oxidizers must operate properly to insure compliance with 326 IAC 8-1-6, 326 IAC 6.8-1 and 326 IAC 2-8 (FESOP) and to insure that this source remains a minor source pursuant to 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset).

The following monitoring requirements from the Compliance Determination section of the FESOP are required to determine compliance with the applicable rules and limitations, specifically 326 IAC 8-1-6 (BACT):

- (a) The Permittee shall determine fan amperage or duct pressure from the most recent valid stack test that demonstrates compliance with limits in this FESOP, as approved by IDEM.
- (b) A continuous monitoring system shall be calibrated, maintained and operated on the thermal oxidizers for measuring operating temperature. The output of this system shall be recorded as a three- (3-) hour average. From the date of issuance of this permit until the next approved stack test results are available, the Permittee shall operate the thermal oxidizer exhausting to stack S-4 at or above the three- (3-) hour average temperature of 1,220° F and the thermal oxidizer exhausting to stack S-1 at or above the three- (3-) hour average temperature of 1,260° F.
- (c) The Permittee shall determine the three- (3-) hour average temperature from the most recent valid stack test that demonstrates compliance with limits in the FESOP as approved by IDEM.
- (d) On or after the date the next approved stack test results are available, the Permittee shall operate the thermal oxidizers at or above the three- (3-) hour average temperatures as observed during the compliant stack test.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal 089-25522-00379 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 application for the purposes of this review was received on November 13, 2007.

Conclusion

The operation of this asphalt processing source shall be subject to the conditions of the attached FESOP Renewal No. F089-25522-00379.

Appendix A: Emissions Calculations

Total Emissions Summary

Company Name: Asphalt Cutbacks, Inc.
Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312
Permit Number: F089-25522-00379

Reviewer: Anne-Marie C. Hart
Date: December 26, 2007

Process	tons/year						
	PM	PM ₁₀	SO ₂	NOx	VOC	CO	HAPs
Thermal Oxidizer S-1	0.19	0.77	0.06	10.14	0.56	8.52	0.19
Thermal Oxidizer S-4	0.10	0.42	0.03	5.48	0.30	4.60	0.10
Asphalt Heater S-2	0.15	0.60	0.05	7.88	0.43	6.62	0.15
Asphalt Heater S-5	0.15	0.60	0.05	7.88	0.43	6.62	0.15
Insignificant Activities	0.08	0.33	0.03	4.38	0.24	3.68	0.08
Uncontrolled Asphalt Processing	1116.90	1116.90	0.00	0.00	171.56	0.00	0.00
Total Uncontrolled Emissions	1117.57	1119.62	0.22	35.76	173.52	30.04	0.67
Controlled Asphalt Processing	12.23	12.23	0.00	0.00	19.04	0.00	0.00
Total Controlled Emissions	12.90	14.95	0.22	35.76	21.00	30.04	0.67

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

**Company Name: Asphalt Cutbacks, Inc.
Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312
Permit Number: F089-25522-00379**

**Reviewer: Anne-Marie C. Hart
Date: December 26, 2007**

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

23.16

202.88

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.19	0.77	0.06	10.14	0.56	8.52

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Pit ID: 089-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

	HAPs - Organics				
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	2.13E-04	1.22E-04	7.61E-03	1.83E-01	3.45E-04

	HAPs - Metals				
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	5.07E-05	1.12E-04	1.42E-04	3.85E-05	2.13E-04
				Total HAPs	1.91E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above. Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

Heat Input Capacity Potential Throughput
MMBtu/hr MMCF/yr

12.5	109.5
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	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.10	0.42	0.03	5.48	0.30	4.60

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-02 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

PIt ID: 089-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.15E-04	6.57E-05	4.11E-03	9.86E-02	1.86E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	2.74E-05	6.02E-05	7.67E-05	2.08E-05	1.15E-04
				Total HAPs	1.03E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

18.0

157.7

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.15	0.60	0.05	7.88	0.43	6.62

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Plt ID: 089-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.66E-04	9.46E-05	5.91E-03	1.42E-01	2.68E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.94E-05	8.67E-05	1.10E-04	3.00E-05	1.66E-04
				Total HAP	1.49E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

18.0

157.7

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.15	0.60	0.05	7.88	0.43	6.62

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = :

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBt

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Plt ID: 089-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.66E-04	9.46E-05	5.91E-03	1.42E-01	2.68E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.94E-05	8.67E-05	1.10E-04	3.00E-05	1.66E-04
				Total HAPs	1.49E-01

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

One (1) heater rated at 2.5 MMBtu/hr
One (1) boiler rated at 7.5 MMBtu/hr

10.0

87.6

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.08	0.33	0.03	4.38	0.24	3.68

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

HAPs Emissions

Company Name: Asphalt Cutbacks, Inc.

Address City IN Zip: 3000 Gary Ave., East Chicago, Indiana 46312

Permit Number: F089-25522-00379

Plt ID: 089-00379

Reviewer: Anne-Marie C. Hart

Date: December 26, 2007

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	9.20E-05	5.26E-05	3.29E-03	7.88E-02	1.49E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	2.19E-05	4.82E-05	6.13E-05	1.66E-05	9.20E-05
				Total HAPs	8.27E-02

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Asphalt Cutbacks, Inc.

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Date: December 26, 2007

Half of the asphalt blown is saturant asphalt and half is coating asphalt.

The emissions in pounds per hour given are the emissions if one or the other is blown in a given hour

The potential emissions in tons per year given are the emissions based on the average of the two emission factors.

Emission Factors from AP-42, Fifth Edition, Volume I, Ch. 11, Table 11.2-2

Calculations reflect the control efficiency determined by 326 8-1-6 BACT analysis

Particulate Matter Emissions

Process	Process weight (tons/hr)	Emission Factors		Potential Emissions		Potential Emissios (tons/yr)	Thermal Oxidizer Efficiency	Emissions After Controls		Emissions after Controls (tons/yr)
		Saturant (lbs/ton)	Coating (lbs/ton)	Saturant (lbs/hr)	Coating (lbs/hr)			Saturant (lbs/hr)	Coating (lbs/hr)	
Asphalt Blowing (PT-1 & KOT-1)	16.00	6.60	24.00	105.60	384.00	558.45	98.90%	1.162	4.224	6.143
Asphalt Blowing (PT-2 & KOT-2)	16.00	6.60	24.00	105.60	384.00	558.45	98.90%	1.162	4.224	6.143

VOC Emissions

Process	Process weight (tons/hr)	Emission Factors		Potential Emissions		Potential Emissios (tons/yr)	Thermal Oxidizer Efficiency	Emissions After Controls		Emissions after Controls (tons/yr)
		Saturant (lbs/ton)	Coating (lbs/ton)	Saturant (lbs/hr)	Coating (lbs/hr)			Saturant (lbs/hr)	Coating (lbs/hr)	
Asphalt Blowing (PT-1 & KOT-1)	16.00	1.30	3.40	20.80	54.40	85.78	88.90%	2.309	6.038	9.521
Asphalt Blowing (PT-2 & KOT-2)	16.00	1.30	3.40	20.80	54.40	85.78	88.90%	2.309	6.038	9.521

Methodology

Potential Emissions (lbs/hr) = Process weight (tons/hr) x Emission Factor (lbs/ton)

Potential Emissions (tons/yr) = Average Potential Emissions (lbs/hr) x Maximum hours of blowing per year / 2000

Maximum blowing time is 12.5 hours in each 24 hour period when operating 24 hours per day

Emissions after controls (tons/yr) = Potential Emissions (tons/yr) x (1-control efficiency)

Control Efficiency = 98.9% for PM and PM10

Control Efficiency = 88.9% for VOC