

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
and ENHANCED NEW SOURCE REVIEW  
OFFICE OF AIR MANAGEMENT**

**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.

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 and 326 IAC 2-1-3.2, as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 089-8619-00379	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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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 Management (OAM) and 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.

Responsible Official: George N. Bizoukas  
Source Address: 3000 Gary Avenue, East Chicago, Indiana 46312  
Mailing Address: 3000 Gary Avenue, East Chicago, Indiana 46312  
SIC Code: 2910  
County Location: Lake  
County Status: Nonattainment for TSP, PM<sub>10</sub>, SO<sub>2</sub>, and Ozone  
Attainment for CO and Lead  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under Emission Offset Rules

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, equipped with a 23.16 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (b) One (1) knockout box for the asphalt blowing process, identified as KOT-1, equipped with the thermal oxidizer identified as S-1 for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (c) One (1) natural gas-fired asphalt heater, identified as S-2, exhausting through stack S-2, capacity: 18.0 million British thermal units per hour.
- (d) Two (2) asphalt storage tanks constructed in 1990, identified as ST-23 and ST-24, capacity: 24,000 gallons, each.
- (e) Two (2) asphalt storage tanks constructed in 1990, identified as ST-25 and ST-26, capacity: 25,000 gallons, each.
- (f) Four (4) industrial cutback storage tanks constructed in 1990, identified as ST-61, ST-62, ST-63 and ST-64, capacity: 19,000 gallons, each.
- (g) One (1) VM&P storage tank constructed in 1990, identified as ST-70, capacity: 15,000 gallons.
- (h) One (1) VM&P storage tank constructed in 1990, identified as ST-71, capacity: 25,000 gallons.

- (i) One (1) mineral spirits storage tank constructed in 1990, identified as ST-72, capacity: 25,000 gallons.
- (j) One (1) mineral spirits storage tank constructed in 1990, identified as ST-73, capacity: 15,000 gallons.
- (k) Four (4) asphalt storage tanks constructed in 1996, identified as ST-19, ST-20, ST-21 and ST-22, capacity: 40,000 gallons, each.
- (l) One (1) knockout box for the asphalt blowing process, identified as KOT-2, equipped with the thermal oxidizer identified as S-4 for VOC and particulate control and exiting through stack S-4, capacity: 200 tons per 24 hour period.
- (m) One (1) natural gas-fired asphalt heater, identified as S-5, exhausting through stack S-5, capacity: 18.0 million British thermal units per hour.
- (n) One (1) process tank for asphalt blowing, identified as PT-2, equipped with a 12.5 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control and exhausting through stack S-4, capacity: 200 tons per 24 hour period.

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

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

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour. (One (1) heater, identified as S-3, capacity: 2.5 million British thermal units per hour.)
- (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.
- (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)(C).
- (f) Paved and unpaved roads.

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

A.5 Prior Permit Conditions Superseded [326 IAC 2]

The terms and conditions of this permit incorporate all the current applicable requirements for all emission units located at this source and supersede all terms and conditions in all registrations and

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permits, including construction permits, issued prior to the date of issuance of this permit. All terms and conditions in such registrations and permits are no longer in effect.

**SECTION B GENERAL CONDITIONS**

**B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]**

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

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

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

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

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

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

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

**B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]**

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

**B.6 Severability [326 IAC 2-8-4(4)]**

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

**B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]**

This permit does not convey any property rights of any sort, or any exclusive privilege.

**B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]**

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

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

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, may request in writing to determine whether cause exists for modifying, revok-

ing and reissuing, or terminating this permit, or to determine compliance with this permit.

- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, the Permittee shall furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

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

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

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

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, 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, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management

100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (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, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAM, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units and associated emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM.

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

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(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

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

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

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

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

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

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

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, 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, OAM by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

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

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

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent.

- (c) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM 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, OAM, 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, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, 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, OAM 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).

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
    - (A) Submitted at least nine (9) months prior to the date of the expiration of this

permit; and

- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due. [326 IAC 2-5-3]
- (2) If IDEM, OAM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM 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, OAM, any additional information identified as needed to process the application.

B.18 Administrative Permit Amendment [326 IAC 2-8-10]

- (a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).
- (b) An administrative permit amendment may be made by IDEM, OAM, consistent with the procedures specified under 326 IAC 2-8-10(b).
- (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]

- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.
- (b) Minor modification of this permit shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F), except as provided by 326 IAC 2-8-11(c).
- (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).
- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application provided that the change has received any approval required by 326 IAC 2-1. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM, takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify.

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If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

B.20 Significant Permit Modification [326 IAC 2-8-11(d)]

- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, review by affected states and review by U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]

Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.

B.22 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

B.23 Operational Flexibility [326 IAC 2-8-15]

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

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management

100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

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

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

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

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

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-8-15(c)]

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAM or U.S. EPA is required.
- (e) 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.24 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.25 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-8-5(a)(4)]

B.26 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-8-10]

Pursuant to 326 IAC 2-1-6 and 2-8-10:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-8-10.
- (c) IDEM, OAM shall reserve the right to issue a new permit.

B.27 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing, or in a time period consistent with the fee schedule established in 326 IAC 2-8-16.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, the Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

B.28 Enhanced New Source Review [326 IAC 2]

The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and such facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

**SECTION C SOURCE OPERATION CONDITIONS**

Entire Source

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

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

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

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
  - (2) The potential to emit any regulated pollutant from the entire source, except volatile organic compounds (VOCs) shall be limited to less than one-hundred (100) tons per three hundred sixty-five (365) consecutive day period. This shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
  - (3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per three hundred sixty-five (365) consecutive day period; and
  - (4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21).
- (c) 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 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of twenty percent (20%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) 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. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

**C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]**

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

**C.5 Fugitive Dust Emissions [326 IAC 6-1-11.1]**

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

**C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]**

All air pollution control equipment listed in this permit shall be operated at all times that the emission units vented to the control equipment are in operation, as described in Section D of this permit.

**C.7 Asbestos Abatement Projects - Accreditation [326 IAC 14-10] [326 IAC 18]  
[40 CFR 61, Subpart M]**

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

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

**C.8 Performance Testing [326 IAC 3-2.1]**

(a) All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by the IDEM, OAM.

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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days before the intended test date.

(b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

C.9 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

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

in writing no more than ninety (90) days after receipt of this permit, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.10 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.12 Temperature Instrument Specifications

Whenever a condition in this permit requires the measurement of temperature at any part of the unit or its control device, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.

C.13 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.140]

- (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 insure 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
  - (3) 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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

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

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]  
Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
  
within ninety (90) days from the date of issuance of this permit.
- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP. If after this time, the Permittee does not submit an approvable ERP, then IDEM, OAM shall supply such a plan.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Compliance Monitoring Plan - Failure to Take Corrective Action [326 IAC 2-8-4(3)]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
  - (1) This condition;
  - (2) The Compliance Determination Requirements in Section D of this permit;
  - (3) The Compliance Monitoring Requirements in Section D of this permit;
  - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
  - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
    - (A) Response steps that will be implemented in the event that compliance

related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

- (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
  - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
  - (3) An automatic measurement was taken when the process was not operating; or
  - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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 corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (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, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

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

#### C.17 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) The Permittee shall submit a certified, annual emission statement that meets the requirements of 326 IAC 2-6 (Emission Reporting). This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

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

- (b) The annual 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, OAM on or before the date it is due.

#### C.18 Monitoring Data Availability

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations,

sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)(B)]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one (1) hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include, where applicable:
  - (1) The date, place, and time of sampling or measurements;
  - (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
  - (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) To affirm that the source has met all the requirements stated in this permit the source shall

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submit a Quality Compliance Report. Any deviation from the requirements and the date(s) of each deviation must be reported.

- (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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (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, OAM, on or before the date it is due.

- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period.

- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

### **Stratospheric Ozone Protection**

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

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

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

**SECTION D.1 FACILITY OPERATION CONDITIONS**

- (a) One (1) process tank for asphalt blowing, identified as PT-1, equipped with a 23.16 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (b) One (1) knockout box for the asphalt blowing process, identified as KOT-1, equipped with the thermal oxidizer identified as S-1 for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (c) One (1) natural gas-fired asphalt heater, identified as S-2, exhausting through stack S-2, capacity: 18.0 million British thermal units per hour.
- (l) One (1) knockout box for the asphalt blowing process, identified as KOT-2, equipped with the thermal oxidizer identified as S-4 for VOC and particulate control and exiting through stack S-4, capacity: 200 tons per 24 hour period.
- (m) One (1) natural gas-fired asphalt heater, identified as S-5, exhausting through stack S-5, capacity: 18.0 million British thermal units per hour.
- (n) One (1) process tank for asphalt blowing, identified as PT-2, equipped with a 12.5 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control and exhausting through stack S-4, capacity: 200 tons per 24 hour period.

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

D.1.1 Particulate Matter (PM) [326 IAC 6-1-2(a)]

- (a) Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the asphalt blowing processes exhausting through stack S-1 shall be limited to 0.03 grain per dry standard cubic foot, equivalent to 1.63 pounds per hour.
- (b) Pursuant to 326 IAC 6-1-2(a)(Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the asphalt blowing processes exhausting through stack S-4 shall be limited to 0.03 grain per dry standard cubic foot, equivalent to 1.24 pounds per hour.
- (c) Compliance with these limits will also demonstrate compliance with 326 IAC 2-8, FESOP and make the requirements of 326 IAC 2-3 (Emission Offset) not applicable.

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

Pursuant to 326 IAC 2-8-4, PM<sub>10</sub> 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 PM<sub>10</sub> emissions from the asphalt blowing processes exhausting through Stack S-4 shall not exceed 1.24 pounds per hour (5.43 tons per year). Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-3(c)(6)]

Preventive Maintenance Plans, in accordance with Section B - Preventive Maintenance Plan, of this permit, are required for the asphalt blowing processes including the 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.1.4 Testing Requirements [326 IAC 2-8-5(1)]

- (a) Testing is required for the asphalt blowing process operations exhausting through Stacks S-1 and S-4. During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform PM and PM<sub>10</sub> testing utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM<sub>10</sub>, or other 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. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>.
- (b) Testing is required for the asphalt blowing process operations controlled by the two (2) thermal oxidizers, exhausting through Stacks S-1 and S-4, to determine the capture and destruction efficiencies for overall VOC control. During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform VOC testing utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

### D.1.5 Particulate Matter (PM) and Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

The thermal oxidizers, S-1 and S-4, for PM, PM<sub>10</sub>, and VOC control shall be in operation at all times when the corresponding asphalt blowing process 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 is equivalent to 98.9 percent for PM and PM<sub>10</sub> and 88.9 percent for VOC.

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

### D.1.6 Visible Emissions Notations

- (a) Daily visible emission notations of the stack S-1 and S-4 exhaust shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

**D.1.7 Parametric Monitoring**

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The Permittee shall record the operating temperature of the thermal oxidizers (S-1 and S-4) used in conjunction with the asphalt blowing processes, continuously when the asphalt blowing processes are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the minimum operating temperature of the thermal oxidizers shall not be lower than 1400°F or a temperature, fan amperage and duct velocity determined in the compliance tests to maintain a minimum 98.9 percent control efficiency (capture and destruction) of the PM<sub>10</sub> and PM emissions, and 88.9 percent control efficiency (capture and destruction) of the VOC emissions. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the temperature falls below 1400°F.

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

**D.1.8 Thermal Oxidizer Inspections**

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Daily visual 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)] [326 IAC 2-8-16]**

**D.1.9 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.6, the Permittee shall maintain records of daily visible emission notations of the Stack S-1 and Stack S-4 exhaust.
- (b) Daily records of the following operational parameters of the thermal oxidizer during normal operation when venting to the atmosphere:
  - (1) operating temperatures;
  - (2) flame presence, and
  - (3) documentation of the dates vents are redirected.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

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**SECTION D.2 FACILITY OPERATION CONDITIONS**

- (d) Two (2) asphalt storage tanks constructed in 1990, identified as ST-23 and ST-24, capacity: 24,000 gallons, each.
- (e) Two (2) asphalt storage tanks constructed in 1990, identified as ST-25 and ST-26, capacity: 25,000 gallons, each.
- (f) Four (4) industrial cutback storage tanks constructed in 1990, identified as ST-61, ST-62, ST-63 and ST-64, capacity: 19,000 gallons, each.
- (g) One (1) VM&P storage tank constructed in 1990, identified as ST-70, capacity: 15,000 gallons.
- (h) One (1) VM&P storage tank constructed in 1990, identified as ST-71, capacity: 25,000 gallons.
- (i) One (1) mineral spirits storage tank constructed in 1990, identified as ST-72, capacity: 25,000 gallons.
- (j) One (1) mineral spirits storage tank constructed in 1990, identified as ST-73, capacity: 15,000 gallons.
- (k) Four (4) asphalt storage tanks constructed in 1996, identified as ST-19, ST-20, ST-21 and ST-22, capacity: 40,000 gallons, each.

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

**D.2.1 Record Keeping Requirements**

- (a) Pursuant to 40 CFR 60.116b, the owner or operator of each storage vessel at this source shall keep readily accessible records showing the dimensions of each storage vessel and an analysis showing the capacity of each storage vessel.
- (b) All records shall be maintained for the life of the facilities in accordance with Section C - General Record Keeping Requirements, of this permit.

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

**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 No.: F 089-8619-00379

**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:

- 9 Annual Compliance Certification Letter
- 9 Emergency/Deviation Occurrence Reporting Form
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

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

Signature:

Printed Name:

Title/Position:

Date:

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY/DEVIATION 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 No.: F 089-8619-00379

**This form consists of 2 pages**

**Page 1 of 2**

Check either No. 1 or No.2	
<b>9</b>	1. This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li>c The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and</li><li>c The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16</li></ul>
<b>9</b>	2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) <ul style="list-style-type: none"><li>c The Permittee must submit notice in writing within ten (10) calendar days</li></ul>

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

Page 2 of 2

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
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: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 QUARTERLY COMPLIANCE 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 No.: F 089-8619-00379

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify zero in the column marked "No Deviations".

**LIST EACH COMPLIANCE REQUIREMENT EXISTING FOR THIS SOURCE:**

Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviations	No Deviations

Form Completed By: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## Indiana Department of Environmental Management Office of Air Management

### Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP) and Enhanced New Source Review (ENSR)

#### Source Background And Description

Source Name:	Asphalt Cutbacks, Inc.
Source Location:	3000 Gary Avenue, East Chicago, Indiana 46312
County:	Lake
SIC Code:	2910
Operation Permit No.:	F 089 - 8619 - 00379
Permit Reviewer:	Mark L. Kramer

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Asphalt Cutbacks, Inc. relating to the operation of an asphalt processing source. The asphalt is transported throughout the site by pumps.

#### Permitted Emission Units and Pollution Control Equipment

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

- (a) One (1) process tank for asphalt blowing, identified as PT-1, equipped with a 23.16 million British thermal units per hour thermal oxidizer, identified as S-1, for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (b) One (1) knockout box for the asphalt blowing process, identified as KOT-1, equipped with the thermal oxidizer identified as S-1 for VOC and particulate control and exhausting through stack S-1, capacity: 200 tons per 24 hour period.
- (c) One (1) natural gas-fired asphalt heater, identified as S-2, exhausting through stack S-2, capacity: 18.0 million British thermal units per hour.
- (d) Two (2) asphalt storage tanks constructed in 1990, identified as ST-23 and ST-24, capacity: 24,000 gallons, each.
- (e) Two (2) asphalt storage tanks constructed in 1990, identified as ST-25 and ST-26, capacity: 25,000 gallons, each.
- (f) Four (4) industrial cutback storage tanks constructed in 1990, identified as ST-61, ST-62, ST-63 and ST-64, capacity: 19,000 gallons, each.
- (g) One (1) VM&P storage tank constructed in 1990, identified as ST-70, capacity: 15,000 gallons.
- (h) One (1) VM&P storage tank constructed in 1990, identified as ST-71, capacity: 25,000 gallons.
- (i) One (1) mineral spirits storage tank constructed in 1990, identified as ST-72, capacity:

- 25,000 gallons.
- (j) One (1) mineral spirits storage tank constructed in 1990, identified as ST-73, capacity: 15,000 gallons.

### **Unpermitted Emission Units and Pollution Control Equipment**

The source also consists of the following unpermitted facilities/units:

- (k) Four (4) asphalt storage tanks constructed in 1996, identified as ST-19, ST-20, ST-21 and ST-22, capacity: 40,000 gallons, each.
- (l) One (1) knockout box for the asphalt blowing process, identified as KOT-2, equipped with the thermal oxidizer identified as S-4 for VOC and particulate control and exiting through stack S-4, capacity: 200 tons per 24 hour period.
- (m) One (1) natural gas-fired asphalt heater, identified as S-5, exhausting through stack S-5, capacity: 18.0 million British thermal units per hour.
- (n) One (1) process tank for asphalt blowing, identified as PT-2, equipped with a 12.5 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control and exhausting through stack S-4, capacity: 200 tons per 24 hour period.

### **Emission Units and Pollution Control Equipment Under Enhanced New Source Review (ENSR)**

Facilities (k) through (n) will be permitted under ENSR.

### **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. (One (1) heater, identified as S-3, capacity: 2.5 million British thermal units per hour.)
- (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.
- (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)(C).
- (f) Paved and unpaved roads.

### **Existing Approvals**

This source has been operating under the following approvals:

Operating Permit issued by the City of East Chicago Department of Air Quality Control in 1992.

### **Enforcement Issue**

- (a) IDEM is aware that the following equipment has been constructed and operated prior to receipt of the proper permit:
  - (1) One (1) process tank for asphalt blowing, identified as PT-2, equipped with a 12.5 million British thermal units per hour thermal oxidizer, identified as S-4, for VOC and particulate control and exhausting through stack S-4, capacity: 200 tons per 24 hour period.
  - (2) One (1) knockout box for the asphalt blowing process, identified as KOT-2, equipped with the thermal oxidizer identified as S-4 for VOC and particulate control and exiting through stack S-4, capacity: 200 tons per 24 hour period.
  - (3) One (1) natural gas-fired asphalt heater, identified as S-5, exhausting through stack S-5, capacity: 18.0 million British thermal units per hour.
  - (4) Four (4) asphalt storage tanks constructed in 1996, identified as ST-19, ST-20, ST-21 and ST-22, capacity: 40,000 gallons, each.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit will also satisfy the requirements of the construction permit rules.

### **Recommendation**

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

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

An administratively complete FESOP application for the purposes of this review was received on May 27, 1997. Additional information was received on November 10, 1997 and November 24, 1997 via telephone.

### **Emissions Calculations**

See pages 1 through 3 of Appendix A: Emissions Calculations for detailed calculations.

### **Potential Emissions**

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	1,125
PM <sub>10</sub>	1,125
SO <sub>2</sub>	1.19
VOC	178
CO	13.0
NO <sub>x</sub>	45.9

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

See pages 1 through 3 of attached spreadsheets for detailed calculations.

HAP	Potential Emissions (tons/year)
TOTAL	0.00

- (a) The potential emissions (as defined in the Indiana Rule) of VOC is equal to or greater than 25 tons per year in Lake County. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential emissions (as defined in the Indiana Rule) of PM<sub>10</sub> are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.
- (d) Fugitive Emissions  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter emissions are not counted toward determination of PSD and Emission Offset applicability.

**Limited Potential To Emit**

- (a) The source has accepted a federally enforceable limit on potential to emit PM<sub>10</sub> of no more than 99 tons per year.
- (b) The source has accepted a federally enforceable limit on potential to emit VOC and NO<sub>x</sub> of no more than 24 tons per year, each.
- (c) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

Process/ facility	Limited Potential to Emit (tons/year)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Two (2) Asphalt Blowing Processes (PT-1 & KOT-1) & (PT-2, & KOT-2) with thermal oxidizers (S-1) & (S-4), & Two (2) Asphalt heaters (S-2 & S-5)	3.27 (13.7)	3.27 (13.7)	0.094	0.526	5.50	22.0	0.00
Sixteen (16) Storage Tanks (ST-19, 20, 21, 22, 23, 24, 25, 26, 61, 62, 63, 64, 70, 71, 72, & 73)	0.00	0.00	0.00	0.810	0.00	0.00	0.00
Insignificant Activities	5.00	5.00	1.00	5.00	2.00	2.00	0.00
Total Emissions	8.27 (18.7)	8.27 (18.7)	1.09	6.34	7.50	24.0	0.00

- (a) The values in the table represent the potential emissions after controls and as otherwise limited. The values in parenthesis represent the allowable emissions based on applicable rules.
- (b) The allowable PM emissions from the asphalt blowing processes are determined by 326 IAC 6-1-2(a). The allowable emissions in this table are the allowable emissions based on this rule in addition to the limited PM emissions from the asphalt heaters (the combustion units not serving as control devices for the process), assuming that the natural gas usage of each combustion unit is limited proportionately.
- (c) The NO<sub>x</sub> emissions are limited by 326 IAC 2-8, FESOP. The limit will be enforced by a natural gas usage limit of 26.2 million cubic feet per month, equivalent to 314 million cubic feet per year by the significant emission units. This will limit NO<sub>x</sub> emissions to 1.83 tons per month, equivalent to 22.0 tons per year. Based on calculations of the NO<sub>x</sub> emissions from insignificant activities, the resultant total NO<sub>x</sub> emissions as a result of this limit will be no more than 24.0 tons per year. The emissions of the other criteria pollutants are limited accordingly in this table.
- (d) See pages 1 through 3 of 3 of Appendix A of this document for detailed calculations.

**County Attainment Status**

The source is located in Lake County.

Pollutant	Status
TSP	Nonattainment
PM <sub>10</sub>	Nonattainment
SO <sub>2</sub>	Nonattainment
Ozone	Nonattainment
CO	Attainment
Lead	Attainment

Volatile organic compounds (VOC) and oxides of nitrogen are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as severe nonattainment for ozone.

### Federal Rule Applicability

- (a) Since, all of the storage vessels at this source were constructed after July 23, 1984 and all of the vessels have capacities greater than 40 cubic meters, the storage vessels could be subject to 40 CFR 60.110b, Subpart Kb. Part 60.116b requires the owner or operator of each storage vessel at this source to keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel.
- (1) Storage tanks ST-19, ST-20, ST-21, and ST-22, with capacities of 40,000 gallons, each, equivalent to 151 cubic meters, have vapor pressures less than 3.5 kiloPascals. Therefore, tanks ST-19, ST-20, ST-21, and ST-22 are exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. These storage tanks are subject to the requirements of Part 60.116b only.
  - (2) Storage tanks ST-23 and ST-24, both with capacities of 24,000 gallons, equivalent to 90.8 cubic meters, have vapor pressures less than 15 kiloPascals. Therefore, tanks ST-23 and ST-24 are exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. These storage tanks are subject to the requirements of Part 60.116b only.
  - (3) Storage tanks ST-25 and ST-26 both with capacities of 25,000 gallons, equivalent to 94.6 cubic meters, have vapor pressures less than 15 kiloPascals. Therefore, tanks ST-25 and ST-26 are exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. These storage tanks are subject to the requirements of Part 60.116b only.
  - (4) Storage tanks ST-61, ST-62, ST-63 and ST-64, all have capacities of 19,000 gallons, equivalent to 71.9 cubic meters. Since these capacities are less than 75 cubic meters, tanks ST-61, ST-62, ST-63 and ST-64 are exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. These storage tanks are subject to the requirements of Part 60.116b only.
  - (5) Storage tank ST-70 has a capacity of 15,000 gallons, equivalent to 56.8 cubic

meters. Since this capacity is less than 75 cubic meters, tank ST-70 is exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. This storage tank is subject to the requirements of Part 60.116b only.

- (6) Storage tank ST-71, with a capacity of 25,000 gallons, equivalent to 94.6 cubic meters, has a vapor pressure less than 15 kiloPascals. Therefore, tank ST-71 is exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. This storage tank is subject to the requirements of Part 60.116b only.
  - (7) Storage tank ST-72, with a capacity of 25,000 gallons, equivalent to 94.6 cubic meters, has a vapor pressure less than 15 kiloPascals. Therefore, tank ST-72 is exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. This storage tank is subject to the requirements of Part 60.116b only.
  - (8) Storage tank ST-73, has a capacity of 15,000 gallons, equivalent to 56.8 cubic meters. Since, this capacity is less than 75 cubic meters, tank ST-74 is exempt from the General Provisions (Part 60, Subpart A) and from the provisions of 40 CFR Part 60.110b, Subpart Kb. This storage tank is subject to the requirements of Part 60.116b only.
- (b) Since this is not a hot mix asphalt plant, the requirements of 40 CFR Part 60.90, Subpart I do not apply.
  - (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 applicable to this source.

#### **State Rule Applicability - Entire Source**

##### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of VOC and NO<sub>x</sub> in Lake County. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

##### 326 IAC 2-8 (FESOP)

- (a) The limitations contained in 326 IAC 6-1 (Nonattainment Area Particulate Limitations) will result in PM<sub>10</sub> emissions of no more than 99 tons per year.
- (b) Operation of the thermal oxidizers at all times when the asphalt blowing processes are in operation will result in VOC emissions of no more than 24 tons per year.
- (c) The natural gas usage by the combination of the asphalt blowing processes (thermal oxidizers) and asphalt heaters will be limited to 26.2 million cubic feet per month, equivalent

to 314 million cubic feet per year. This will result in NO<sub>x</sub> emissions from significant emission units of no more than 1.83 tons per month, equivalent to 22.0 tons per year. The total NO<sub>x</sub> emissions from the source will not exceed 24 tons per year as a result of this limit. The calculation of this limit is as follows:

$$\text{Limited natural gas usage (millions of cubic feet per year (mmcf))} = \frac{(\text{NO}_x \text{ Limit} - \text{NO}_x \text{ from insignificant activities}) \text{ tons per year} * 2,000 \text{ pounds per ton}}{\text{Emission Factor (pounds of NO}_x \text{ per mmcf)}}$$
$$\text{Natural gas usage limitation} = (24.0 - 2.0) \text{ tons/yr} * 2,000 \text{ lbs/ton} / 140.0 \text{ lbs NO}_x \text{ /mmcf} \\ = 314 \text{ million cubic feet per year or } 1.83 \text{ million cubic feet per month}$$

#### 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of twenty percent (20%) opacity in twenty-four (24) consecutive readings, as determined in 326 IAC 5-1-4.
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

#### 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

Pursuant to 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), the opacity of fugitive particulate emissions may not exceed ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

### **State Rule Applicability - Individual Facilities**

#### 326 IAC 6-1 (Nonattainment Area Particulate Limitations)

Pursuant to 326 IAC 6-1-2(a) (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the asphalt blowing facilities shall be limited to 0.03 grain per dry standard cubic foot.

- (a) 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 6346 dry standard cubic feet per minute. Since the potential PM emissions after controls from stack S-1 when coating asphalt (worst case) is undergoing the blowing process are 0.701 pounds per hour including combustion, the blowing processes will comply with this rule. Compliance will be demonstrated by operating the thermal oxidizer (S-1) at all times when the blowing process exhausting through stack S-1 is in operation.
- (b) 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. Since the potential PM emissions after controls from stack S-4 when coating asphalt (worst case) is undergoing the blowing process are 0.555 pounds per hour, the blowing processes will comply with this rule. Compliance will be demonstrated by operating the thermal oxidizer (S-4) at all times when the blowing process exhausting through stack S-4 is in operation.

Asphalt Cutbacks, Inc.  
East Chicago, Indiana  
Permit Reviewer: MES

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326 IAC 7-1.1 (Sulfur Dioxide Emission Limits)

This facility is not subject to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limits), because it does not have the potential to emit greater than 25.0 tons per year or 10 pounds per hour of sulfur dioxide.

326 IAC 8-1-6 (General provisions relating to VOC rules)

Since potential VOC emissions from the new blowing process (PT-2 and KOT-2) are greater than 25 tons per year, the requirements of 326 IAC 8-1-6 are applicable. The thermal oxidizer (S-4) will limit VOC emissions to less than 24 tons per year. The thermal oxidizer, therefore, will qualify as the best available control technology (BACT) for these facilities and also make the requirements of 326 IAC 2-3 not applicable.

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

All storage vessels are exempt from the requirements of 326 IAC 8-9-2(8), since all storage tanks are subject to the record keeping requirements specified by 40 CFR 60.110b.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

This facility is not subject to 326 IAC 9-1 (Carbon Monoxide Emission Limits), because it is not a petroleum refining, ferrous metal smelting or refuse incineration facility.

### Compliance Requirements

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

Compliance Determination Requirements in permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. 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:

- (a) The existing 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:
  - (1) Daily visible emissions notations of the stack (S-1 and S-4) exhausts shall be performed during normal daylight operations. A trained employee will record

whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

- (2) The thermal oxidizers (S-1 and S-4) shall maintain a minimum operating temperature of 1400°F or a temperature, fan amperage and duct velocity determined in the compliance tests to maintain a minimum 99.7 percent destruction of the PM and PM<sub>10</sub> captured, and a 90 percent destruction of the VOC captured. The 99.7 percent control efficiency is the minimum control efficiency needed in order for PM to comply with 326 IAC 6-1-2(a).
- (3) Daily visual inspections of the flame presence shall be conducted on each thermal oxidizer (S-1 and S-4) while in operation.

These monitoring conditions are necessary because the thermal oxidizers must operate properly to insure compliance with 326 IAC 6-1-2(a) and 326 IAC 2-8 (FESOP).

### **Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

None of these listed air toxics will be emitted from this source.

### **Conclusion**

The operation of this asphalt processing source will be subject to the conditions of the attached proposed **FESOP No. F 089-8619-00379**.

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

**Company Name:** Asphalt Cutbacks, Inc.  
**Address City IN Zip:** 3000 Gary Ave., East Chicago, IN 46312  
**FESOP:** F089-8619  
**Pit ID:** 089-00379  
**Reviewer:** Mark L. Kramer  
**Date:** May 27, 1997

**One (1) 18 MMBtu/hr Asphalt Heater, S-2**

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
	13.7	13.7	0.6	140.0	2.8	35.0
Potential Emission in tons/yr	1.08	1.08	0.047	11.0	0.221	2.76

**One (1) 18 MMBtu/hr Asphalt Heater, S-5**

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
	13.7	13.7	0.6	140.0	2.8	35.0
Potential Emission in tons/yr	1.08	1.08	0.047	11.0	0.221	2.76

**One (1) 23.16 MMBtu/hr thermal oxidizer, S-1**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
23.16	202.9

Emission Factor in lb/MMCF	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	13.7	13.7	0.6	140.0	2.8	35.0
Potential Emission in tons/yr	1.39	1.39	0.061	14.2	0.284	3.55

**One (1) 12.5 MMBtu/hr Thermal Oxidizer, S-4**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
12.5	109.5

Emission Factor in lb/MMCF	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
	13.7	13.7	0.6	140.0	2.8	35.0
Potential Emission in tons/yr	0.750	0.750	0.033	7.67	0.153	1.92

**SUMMARY**

	PM	PM10	SO2	NOx	VOC	CO
Total Potential Emissions (tons/yr)	4.30	4.30	0.188	43.9	0.879	11.0
Limited Emissions (tons/yr)	2.15	2.15	0.094	22.0	0.440	5.50

**Methodology**

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 140, Low NOx Burner = 81, Flue gas recirculation = 30

Emission Factors for CO: Uncontrolled = 35, Low NOx Burner = 61, Flue gas recirculation = 37

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

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

Limited Emissions (tons/yr) = ((NOx limit-NOx from insignificant emissions) / Potential NOx Emissions) \* Emissions of each pollutant

Appendix A: Emissions Calculations  
Process Operations

Company Name: Asphalt Cutbacks, Inc.  
Address City IN Zip: 3000 Gary Ave., East Chicago, IN 46312  
FESOP: F089-8619  
Plt ID: 089-00379  
Reviewer: Mark L. Kramer  
Date: May 27, 1997

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.

Particulate Matter Emissions

Process	Process weight (tons/hr)	Emission Factors		Potential Emissions		Potential Emissions (tons/yr)	Thermal Oxidizer Efficiency	Emissions after control		Emissions after control (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	6.6	24	106	384.0	558	0.999	0.106	0.384	0.558
Asphalt Blowing (PT-2&KOT-2)	16	6.6	24	106	384.0	558	0.999	0.106	0.384	0.558

VOC Emissions

Process	Process weight (tons/hr)	Emission Factors		Potential Emissions		Potential Emissions (tons/yr)	Thermal Oxidizer Efficiency	Emissions after control		Emissions after control (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	1.3	3.4	21	54.4	85.8	0.999	0.021	0.054	0.086
Asphalt Blowing (PT-2&KOT-2)	16	1.3	3.4	21	54.4	85.8	0.999	0.021	0.054	0.086

This process is subject to 326 IAC 6-1-2(a) which limits PM emissions to 0.03 grain per dry standard cubic foot.  
PT-1 and KOT-1 exhaust through Stack S-1

$$0.03 \frac{\text{grains}^*}{\text{dscf}} \times \frac{6346 \text{ dscfm}}{1} \times \frac{60 \text{ minutes}^*}{\text{hour}} \times \frac{1}{7000 \text{ grains}} = 1.63 \text{ lbs/hr}$$

The worst case hourly PM emissions after controls from PT-1 and KOT-1 equal: 0.384 lbs/hr + 0.317 lbs/hr from combustion = 0.701  
These operations comply with 326 IAC 6-1

PT-2 and KOT-2 exhaust through Stack S-4

$$0.03 \frac{\text{grains}^*}{\text{dscf}} \times \frac{4810 \text{ dscfm}}{1} \times \frac{60 \text{ minutes}^*}{\text{hour}} \times \frac{1}{7000 \text{ grains}} = 1.24 \text{ lbs/hr}$$

The worst case hourly PM emissions after controls from PT-2 and KOT-2 equal: 0.384 lbs/hr + 0.171 lbs/hr from combustion = 0.555  
These operations comply with 326 IAC 6-1

Methodology

Potential Emissions (lbs/hr) = Process weight (tons/hr) \* Emission Factor (lbs/ton)  
Potential Emissions (tons/yr) = Average Potential Emissions (lbs/hr) \* Maximum hours of blowing per year / 2000 lbs/ton  
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) \* (1-control efficiency)

Company Name: Asphalt Cutbacks, Inc.  
 Address City IN Zip: 3000 Gary Ave., East Chicago, IN 46312  
 FESOP: F089-8619  
 Plt ID: 089-00379  
 Reviewer: Mark L. Kramer  
 Date: May 27, 1997

Tank ID	Description	Standing Losses (lbs/yr)	Working Losses (lbs/yr)	Total Losses (lbs/yr)	Potential Emissions (tons/yr)
ST-19	Asphalt storage	2.64	11.45	14.09	0.007
ST-20	Asphalt storage	2.64	11.45	14.09	0.007
ST-21	Asphalt storage	2.64	11.45	14.09	0.007
ST-22	Asphalt storage	2.64	11.45	14.09	0.007
ST-23	Asphalt storage	1.67	6.79	8.46	0.004
ST-24	Asphalt storage	1.67	6.79	8.46	0.004
ST-25	Flux storage	1.90	12.39	14.29	0.007
ST-26	Flux storage	1.90	12.39	14.29	0.007
ST-61	Cutback storage	44.90	98.08	142.98	0.071
ST-62	Cutback storage	44.90	98.08	142.98	0.071
ST-63	Cutback storage	44.90	98.08	142.98	0.071
ST-64	Cutback storage	437.96	623.60	1061.56	0.531
ST-70	VM&P	1.40	0.63	2.03	0.001
ST-71	VM&P	2.51	0.99	3.50	0.002
ST-72	Mineral Spirits	4.15	10.35	14.50	0.007
ST-73	Mineral Spirits	2.31	5.90	8.21	0.004
<b>Total:</b>					0.810

**Methodology**

Emissions are calculated using the Tanks Program 3.0

## Indiana Department of Environmental Management Office of Air Management

### Addendum to the Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

Source Name: Asphalt Cutbacks, Inc.  
 Source Location: 3000 Gary Avenue, East Chicago, Indiana 46312  
 County: Lake  
 FESOP: F 089-8619-00379  
 SIC Code: 2910  
 Permit Reviewer: Mark L. Kramer

On January 2, 1998, the Office of Air Management (OAM) had a notice published in the Gary Post Tribune in Gary, and the Hammond Times in Munster, Indiana, stating that Asphalt Cutbacks, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate an asphalt processing source with control. The notice also stated that OAM proposed to issue a FESOP for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

Upon further review, the OAM has decided to make the following changes to the FESOP:

1. Testing for VOC capture and destruction efficiencies has been added as Condition D.1.4(b) because the emission factors need to be verified to assure compliance with the FESOP limits.

#### D.1.4 Testing Requirements [326 IAC 2-8-5(1)]

(b) Testing is required for the asphalt blowing process operations controlled by the two (2) thermal oxidizers, exhausting through Stacks S-1 and S-4, to determine the capture and destruction efficiencies for overall VOC control. During the period between 30 and 36 months after issuance of this permit, the Permittee shall perform VOC testing utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

2. The NO<sub>x</sub> potential emissions reviewed under Enhanced New Source Review from the facilities, identified as PT-2, KOT-2, S-4, S-5 and ST-19 through ST-22, are less than 25 tons per year. The potential NO<sub>x</sub> emissions from the entire source (which include the aforementioned units) are less than 100 tons per year. Since the total source potential NO<sub>x</sub> emissions are less than 100 tons per year, pursuant to 326 IAC 2-8, it will not be necessary to limit the natural gas usage as proposed in the draft permit to meet the 25 tons per year NO<sub>x</sub> limit since this source applied for a permit and received such from the City of East Chicago, Department of Air Quality Control for the existing facilities in 1992. Therefore, Condition C.1 (a) (1) and (2) have been changed as follows:

#### C.1 (a)

- (1) The potential to emit volatile organic compounds (VOCs) ~~and oxides of nitrogen (NO<sub>x</sub>)~~ from the entire source shall be limited to less than twenty-five (25) tons per three hundred sixty-five (365) consecutive day period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any regulated pollutant from the entire source, except volatile organic compounds (VOCs) ~~and oxides of nitrogen (NO<sub>x</sub>)~~, shall be limited to less than one-hundred (100) tons per three hundred sixty-five (365) consecutive day period. This shall also satisfy

the requirements of 326 IAC 2-3 (Emission Offset);

Since proposed Conditions D.1.2, D.1.4(b), D.1.9(a) and D.1.10 all referenced the natural gas limit, these four (4) conditions have been deleted from the permit and the remaining conditions have been renumbered accordingly.

3. A new condition D.1.2 has been added because the PM<sub>10</sub> limit was inadvertently left out of the proposed permit and is as follows:

D.1.2 Particulate Matter (PM<sub>10</sub>)

Pursuant to 326 IAC 2-8-4, PM<sub>10</sub> 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 PM<sub>10</sub> emissions from the asphalt blowing processes exhausting through Stack S-4 shall not exceed 1.24 pounds per hour (5.43 tons per year). Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

4. The wording of Condition D.1.7 has been revised in order to clarify that the overall destruction efficiency includes both capture and destruction. The wording has changed as follows:

D.1.7 Parametric Monitoring

The Permittee shall record the operating temperature of the thermal oxidizers (S-1 and S-4) used in conjunction with the asphalt blowing processes, continuously when the asphalt blowing processes are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the minimum operating temperature of the thermal oxidizers shall not be lower than 1400°F or a temperature, fan amperage and duct velocity determined in the compliance tests to maintain a minimum ~~99.7~~ 98.9 percent control efficiency (**capture and destruction**) of the PM<sub>10</sub> and PM emissions, ~~and 90 percent destruction of the VOC captured~~ and 88.9 percent control efficiency (capture and destruction) of the VOC emissions. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the ~~when the pressure reading is outside of the above mentioned range for any one reading~~ **temperature falls below 1400°F.**