



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: January 18, 2008
RE: Marathon Petroleum Company, LLC / 129-23302-00006
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



Mitchell E. Daniels, Jr.
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MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
www.in.gov/idem

Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

**Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
1200 Old Highway 69 South
Mt. Vernon, Indiana 47620**

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

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

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.

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

Operation Permit No.: F 129-23302-00006	
Issued by: <i>Original signed by</i> Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: January 18, 2008 Expiration Date: January 18, 2018

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SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a petroleum products distribution source.

Source Address:	1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
Mailing Address:	1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
General Source Phone Number:	(317) 260-3285
SIC Code:	5171
County Location:	Posey
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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

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

- (a) Crude oil, distillate, gasoline, neat ethanol, asphalt, and slurry barge loading/unloading facilities, installed in 1953 and repaired in 2001, limited throughput: 30,000,000 gallons of gasoline or crude oil, 20,000,000 gallons of neat ethanol, 300,000,000 gallons of kerosene, 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oil per year. Distillate will include kerosene, #2 fuel oil, #6 fuel oil, or other oil with a vapor pressure less than 1.5 psi.
- (b) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid storage tank, identified as 25-6, installed in 1953, equipped with an internal floating roof, installed on May 19, 1997, capacity: 975,996 gallons.
- (c) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 25-8, installed in 1953, capacity: 939,246 gallons.
- (d) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-4, installed in 1954, capacity: 2,099,748 gallons.
- (e) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-9, installed in 1953, capacity: 2,092,146 gallons.

A.3 Specifically Regulated 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 which are specifically regulated, 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, rated at a total of 12.6 million British thermal units per hour, including:

Two (2) natural gas-fired hot oil heaters, installed in April 1995, rated at: 6.3 million British thermal units per hour, each.

- (b) Combustion source flame safety purging on startup.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (e) Closed loop heating and cooling systems.
- (f) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume.
- (g) Process vessel degassing and cleaning to prepare for internal repairs.
- (h) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (k) Three (3) fixed roof asphalt or slurry storage tanks, identified as Tank 80-1, Tank 150-10, and Tank 150-11. Tank 80-1 has a storage capacity of 3,103,377 gallons of asphalt or slurry, Tank 150-10 has a capacity of 6,271,103 gallons of asphalt or slurry, and Tank 150-11 has a storage capacity of 6,273,122 gallons of asphalt or slurry.
- (l) Three (3) fixed roof No. 2 fuel oil or kerosene storage tanks, identified as Tank 25-2, Tank 25-3, and Tank 25-7. Tank 25-2 has a storage capacity of 1,033,368 gallons of No. 2 fuel oil or kerosene, Tank 25-3 has a storage capacity of 1,028,202 gallons of No. 2 fuel oil or kerosene, and Tank 25-7 has a storage capacity of 1,028,832 gallons of No.2 fuel oil or kerosene.
- (m) One (1) asphalt, slurry, and heavy oil (products with characteristics of No. 6 residual oil, vacuum tower bottoms, and vacuum gas oil) loading rack, constructed in 1995, maximum throughput: 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oils.
- (n) One (1) liquid propane gas-fired office furnace, installed in 2005, heat input capacity: 0.100 million British thermal units per hour.
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].

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

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, F 129-23302-00006, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-3-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

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

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

B.5 Severability [326 IAC 2-8-4(4)]

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

B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

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

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

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

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

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

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

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

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

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

B.11 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

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

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a state health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

Telephone Number: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865

Southwest Regional Office phone: 812-380-2305 or 888-672-8323; fax: 812-380-2304

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

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

and

Southwest Regional Office
1120 N. Vincennes Avenue
P.O. Box 128
Petersburg, Indiana 47567-0128

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

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

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

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

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

provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

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

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

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

- (a) All terms and conditions of permits established prior to F 129-23302-00006 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

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

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

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

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

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

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

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

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

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit;
and

- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

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

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

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

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

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

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

and

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

Chicago, Illinois 60604-3590

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

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

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

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

B.20 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC13-30-3-1]

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

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

compliance with this permit or applicable requirements.

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

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

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

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

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

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

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

B.24 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than one hundred (100) pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed five hundred fifty-one thousandths (0.551) pounds per hour.

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

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

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

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

fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

C.6 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least two hundred sixty (260) linear feet on pipes or one hundred sixty (160) square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information

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

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

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

C.8 Performance Testing [326 IAC 3-6]

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

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

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

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

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

Compliance Requirements [326 IAC 2-1.1-11]

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

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

sioner or the U.S. EPA.

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

C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

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

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

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

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

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

C.12 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

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

C.14 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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

C.15 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

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

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.16 Compliance with 40 CFR 82 and 326 IAC 22-1

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

emissions reduction:

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

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Barge loading facilities and storage tanks

- (a) Crude oil, distillate, gasoline, neat ethanol, asphalt, and slurry barge loading/unloading facilities, installed in 1953 and repaired in 2001, limited throughput: 30,000,000 gallons of gasoline or crude oil, 20,000,000 gallons of neat ethanol, 300,000,000 gallons of kerosene, 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oil per year. Distillate will include kerosene, #2 fuel oil, #6 fuel oil, or other oil with a vapor pressure less than 1.5 psi.
- (b) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid storage tank, identified as 25-6, installed in 1953, equipped with an internal floating roof, installed on May 19, 1997, capacity: 975,996 gallons.
- (c) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 25-8, installed in 1953, capacity: 939,246 gallons.
- (d) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-4, installed in 1954, capacity: 2,099,748 gallons.
- (e) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-9, installed in 1953, capacity: 2,092,146 gallons.

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

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

D.1.1 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4][326 IAC 2-2]

- (a) The total throughput of gasoline or crude oil shall be limited to 30,000,000 gallons per twelve consecutive month period and the total throughput of the neat ethanol shall be limited to 20,000,000 gallons per twelve consecutive month period, with compliance determined at the end of each month. Compliance with these throughput limits shall limit the VOC emissions to 55 tons per year excluding VOC emissions from the insignificant activities.
- (b) The throughput limits in (a) of this condition shall also limit the single HAP to less than ten (10) tons per twelve (12) consecutive month period and the combined HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period.

Compliance with the above limit, combined with the potential to emit VOC from the other emission units at the source, shall limit the VOC from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7, Part 70, and 326 IAC 2-2, Prevention of Significant Deterioration (PSD) not applicable.

D.1.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

D.1.3 Record Keeping Requirements

To document compliance with Condition D.1.1, the Permittee shall maintain records of the gasoline, crude oil and neat ethanol throughput loaded into the barge and petroleum products that are stored in the storage tanks at the facility. The records shall be complete and sufficient to establish compliance with the HAP usage limits and/or HAP emission limits that may be established in this permit.

D.1.4 Reporting Requirements

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

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (m) One (1) asphalt, slurry, and heavy oil (products with characteristics of No. 6 residual oil, vacuum tower bottoms, and vacuum gas oil) loading rack, constructed in 1995, maximum throughput: 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oils.
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].

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

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

D.2.1 New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX)

In order to make the requirements of New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX) not applicable, the source shall not load any liquid from the one (1) asphalt loading rack to a tank truck which has loaded gasoline on the immediately previous load.

D.2.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:

- (a) Equip the cleaner with a cover;
- (b) Equip the cleaner with a facility for draining cleaned parts;
- (c) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) Provide a permanent, conspicuous label summarizing the operation requirements;
- (f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.3 Volatile Organic Compounds (VOC) [326 IAC 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs constructed after July 1, 1990, the Permittee shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or

- (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

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

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

Source Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Source Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
Mailing Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP No.: F 129-23302-00006

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

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

Source Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Source Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
Mailing Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP No.: F 129-23302-00006

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

Source Name: Marathon Ashland Petroleum LLC.
 Source Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
 Mailing Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
 FESOP No.: F 129-23302-00006
 Facilities: One (1) barge loading facility
 Parameter: VOC and HAPs
 Limit: The total throughput of gasoline or crude oil shall be limited to 30,000,000 gallons per twelve consecutive month period and the total throughput of the neat ethanol shall be limited to 20,000,000 gallons per twelve consecutive month period, with compliance determined at the end of each month. Compliance with these throughput limits shall limit the VOC emissions to 55 tons per year excluding VOC emissions from the insignificant activities. The throughput limits shall also limit the single HAP to less than ten(10) tons per twelve (12) consecutive month period and combined HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period.

YEAR:

Month	Gasoline (gal)	Neat ethanol (gal)	Gasoline (gal)	Neat ethanol (gal)	Gasoline (gal)	Neat ethanol (gal)
	This Month		Previous 11 Months		12 Month Total	

9 No deviation occurred in this quarter.
 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION

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

Source Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Source Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
Mailing Address: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP No.: F 129-23302-00006

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

Indiana Department of Environmental Management Office of Air Quality

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

Source Name: Marathon Petroleum Company, LLC
Source Location: 1200 Old Highway 69 South, Mt. Vernon, IN 47620
County: Posey
SIC Code: 5171
Operation Permit No.: F129-23302-00006
Permit Reviewer: Janet Mobley

On November 21, 2007, the Office of Air Quality (OAQ) had a notice published in the Mount Vernon Democrat, Mount Vernon, Indiana, stating that Marathon Petroleum Company, LLC had applied for a FESOP Permit Renewal to operate a stationary petroleum products distribution operation. The notice also stated that OAQ proposed to issue a renewal permit for this operation and provided information on how the public could review the proposed permit 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 permit should be issued as proposed.

On December 19, 2007, OAQ received the following comments from William J. Day, of Marathon Petroleum Company.

Comment 1:

It is requested that the list of insignificant activities detailed in the Technical Support Document (TSD) attached to the draft permit, items (a) through (o) on pages 2-3 of 14, be included in Section A.3 of the permit. These items are in the current permit.

Response 1: IDEM agrees and the insignificant activities have been added to Section A.3 of the permit as requested. The activities that are shown with a strikeout were in the draft that was public noticed and are renumbered in the final permit.

- ~~(a) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].~~
- ~~(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].~~
- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, rated at a total of 12.6 million British thermal units per hour, including:**
 - Two (2) natural gas-fired hot oil heaters, installed in April 1995, rated at: 6.3 million British thermal units per hour, each.**
- (b) Combustion source flame safety purging on startup.**
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.**

- (d) **The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.**
- (e) **Closed loop heating and cooling systems.**
- (f) **Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume.**
- (g) **Process vessel degassing and cleaning to prepare for internal repairs.**
- (h) **Paved and unpaved roads and parking lots with public access [326 IAC 6-4].**
- (i) **Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.**
- (j) **Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.**
- (k) **Three (3) fixed roof asphalt or slurry storage tanks, identified as Tank 80-1, Tank 150-10, and Tank 150-11. Tank 80-1 has a storage capacity of 3,103,377 gallons of asphalt or slurry, Tank 150-10 has a capacity of 6,271,103 gallons of asphalt or slurry, and Tank 150-11 has a storage capacity of 6,273,122 gallons of asphalt or slurry.**
- (l) **Three (3) fixed roof No. 2 fuel oil or kerosene storage tanks, identified as Tank 25-2, Tank 25-3, and Tank 25-7. Tank 25-2 has a storage capacity of 1,033,368 gallons of No. 2 fuel oil or kerosene, Tank 25-3 has a storage capacity of 1,028,202 gallons of No. 2 fuel oil or kerosene, and Tank 25-7 has a storage capacity of 1,028,832 gallons of No.2 fuel oil or kerosene.**
- (m) **One (1) asphalt, slurry, and heavy oil (products with characteristics of No. 6 residual oil, vacuum tower bottoms, and vacuum gas oil) loading rack, constructed in 1995, maximum throughput: 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oils.**
- (n) **One (1) liquid propane gas-fired office furnace, installed in 2005, heat input capacity: 0.100 million British thermal units per hour.**
- (o) **Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].**

Comment 2:

No throughput limits for the barge loading of gasoline or crude oil (30 MM gallons requested per rolling 12 month period) or ethanol (20 MM gallons requested per rolling 12 month period) are specified in Section D, other than in the facility description and in the TSD. As detailed in the application data submitted, the facility can load out significantly more volume at 1,366,560,000 gallons of gasoline per year compared to 30,000,000 gallons per year if not restricted, which could exceed the 100 ton VOC and 10/25 HAP limits on a consecutive 12 month period.

Response 2:

The following conditions were added to the permit and the previous D.1.1 condition in the public notice draft permit is now numbered D.1.2. Crude oil has similar characteristics as gasoline, typically lower VOCs and will be limited as follows:

**D.1.1 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 2-8-4]
[326 IAC 2-2]**

- (a) The total throughput of gasoline or crude oil shall be limited to 30,000,000 gallons per twelve consecutive month period and the total throughput of the neat ethanol shall be limited to 20,000,000 gallons per twelve consecutive month period, with compliance determined at the end of each month. Compliance with these throughput limits shall limit the VOC emissions to 55 tons per year excluding VOC emissions from the insignificant activities.
- (b) The throughput limits in (a) of this condition shall also limit the single HAP to less than ten (10) tons per twelve (12) consecutive month period and the combined HAPs to less than twenty-five (25) tons per twelve 12 consecutive month period.

Compliance with the above limit, combined with the potential to emit VOC from the other emission units at the source, shall limit the VOC from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7, Part 70, and 326 IAC 2-2, Prevention of Significant Deterioration (PSD) not applicable.

~~D.1.1~~ **D.1.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

D.1.3 Record Keeping Requirements

To document compliance with Condition D.1.1, the Permittee shall maintain records of the gasoline, crude oil and neat ethanol throughput loaded into the barge and petroleum products that are stored in the storage tanks at the facility. The records shall be complete and sufficient to establish compliance with the VOC limits and HAP emission limits as established in this permit.

D.1.4 Reporting Requirements

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

As a result of Condition D.1.1 being added to the permit a Quarterly Reporting Form is also included:

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

Source Name: Marathon Ashland Petroleum LLC.
Source Address: Old State Road #69 South, Mt. Vernon, Indiana 47620
Mailing Address: Old State Road #69 South, Mt. Vernon, Indiana 47620
FESOP No.: F 129-13956-00006
Facilities: One (1) barge loading facility
Parameter: VOC and HAPs
Limit: The total throughput of gasoline or crude oil shall be limited to 30,000,000 gallons per twelve consecutive month period and the total throughput of the neat ethanol shall be limited to 20,000,000 gallons per consecutive month period, with compliance determined at the end of each month. Compliance with these throughput limits shall limit the VOC emissions to 55 tons per year excluding VOC emissions from the insignificant activities. The throughput limits shall also limit the single HAP to less than ten (10) tons per twelve (12) consecutive month period and combined HAPs to less than twenty-five (25) tons per twelve (12) consecutive month period.

YEAR:

Month	Gasoline (gal)	Neat ethanol (gal)	Gasoline (gal)	Neat ethanol (gal)	Gasoline (gal)	Neat ethanol (gal)
	This Month		Previous 11 Months		12 Month Total	

9 No deviation occurred in this quarter.
 9 Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

IDEM, OAQ has decided to make the following changes. The TSD will remain as it originally appeared when published. Changes to the permit or TSD that occur after the permit has been published are documented in this addendum (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified to reflect these changes.

Change 1: The Facility Description in Section D.1 does not include the asphalt, slurry, or heavy oil truck loading rack as described in the TSD, item (m) which is an insignificant activity. The one (1) asphalt rack constructed in 1995 that was inadvertently excluded from the proposed permit including its applicable requirements has been added in the permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities

- (m) One (1) asphalt, slurry, and heavy oil (products with characteristics of No. 6 residual oil, vacuum tower bottoms, and vacuum gas oil) loading rack, constructed in 1995, maximum throughput: 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oils.**
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].**

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

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

D.2.1 New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX)

In order to make the requirements of New Source Performance Standards (326 IAC 12) (40 CFR 60.500 through 60.506, Subpart XX) not applicable, the source shall not load any liquid from the one (1) asphalt loading rack to a tank truck which has loaded gasoline on the immediately previous load.

Change 2: IDEM made the following change to the permit term. On December 16, 2007, rule revisions to 326 IAC 2-1.1-9 and 326 IAC 2-8-4 were finalized allowing for ten (10) year permit terms on FESOP renewals. Condition B.2 has been revised to reflect the ten (10) year permit term.

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

- (a) This permit, F 129-23302-00006, is issued for a fixed term of ~~five ten (5)(10)~~ years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.**
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.**

Technical Support Document

Reason from the TSD that the conditions were not incorporated in the draft public notice:

Since the last approval issued to the source, Administrative Amendment 129-21648-00006, issued on November 21, 2005, the one (1) distillate, gasoline, and/or neat ethanol loading rack, installed in 1954, equipped with one (1) carbon adsorber vapor recovery unit, installed in December 1995, and three (3) backup trailer mounted thermal incinerators have been removed from the source. All throughput limitations and testing requirements that previously were in the permit in Section D.1 for the truck loading rack are no longer necessary. In addition, the unrestricted potential VOC emissions from the entire source are now less than one hundred (100) tons per year, the unrestricted potential emissions of an individual HAP are less than ten (10.0) tons per year, and the unrestricted potential emissions of a combination of all HAPs are less than twenty-five (25.0) tons per year, so no throughput limitations are necessary for the remaining barge loading facilities. For the same reasons, no limitations are necessary for the storage tanks in operation at the source, as was previously required by Section D.2 of F 129-13959-00006.

No changes have been made to the TSD because the OAQ prefers that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document (bolded language has been added, the language with a line through it has been deleted). This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. No change to the permit is necessary.

For clarification on the applicability of 326 IAC 8-4-4 Bulk Gasoline Terminals. This rule is not applicable because the barge loading/unloading facilities do not have any control equipment subject to this rule.

Also, pages 4 and 11 of Appendix A: Emission Calculations have been revised to reflect the potential to emit over 100 tons of VOC emissions. See attached revised pages to this addendum.

Appendix A: Emission Calculations
Barge Loading Emissions - Gasoline

Revised

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Janet Mobley
Date: January 7, 2008

Truck and Barge Unloading/Loading Emissions

Product	Maximum Throughput (gals/yr)	VOC Emission Factor (lbs/gal)	Uncontrolled PTE	Limited VOC Emissions	Limited Throughput (gals/yr)
Gasoline or Crude Oil	1,366,560,000	0.003	2049.84	45	30,000,000
Ethanol		0.001	0	10	20,000,000
Kerosene		0.00001	1.5	1.5	300,000,000
Asphalt		0.00001	0.2	0.2	40,000,000
Slurry		0.0000004	0.008	0.008	40,000,000
Heavy Oil		0.0000004	0.004	0.004	20,000,000
		Totals	2051.552	56.712	

Methodology

VOC emission Factor from AP-42 Table 5.2-2 for Gasoline and converted to lbs/gal by dividing by 1,000
VOC emission Factor from AP-42 Table 5.6-2 for other fuels and converted to lbs/gal by dividing by 1,000
VOC Emissions (tons/yr) = Throughput (gals/yr) X 1 ton/2000 lbs)

Crude oil has similar characteristics as gasoline, typically lower VOCs. The emission factor is 0.00033 for crude oil.

Company Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address Cc 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Re F 129-23302-00006
Reviewer: Janet Mobley
Date: January 4, 2008

Summary of Emissions

Uncontrolled Potential Emissions

Significant Emission Units	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Benzene (tons/yr)	Toluene (tons/yr)	Ethylbenzen (tons/yr)	Xylene (tons/yr)	Trimethylpe (tons/yr)	Hexane (tons/yr)	chloro-benze (tons/yr)	Formal-dehyde (tons/yr)	Lead (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Manganese (tons/yr)	Nickel (tons/yr)	Total HAPs (tons/yr)
Barge Loading/Unloading	0	0	0	0	2051.6	0	0.459	0.663	0.051	0.255	0.408	0.816	0	0	0	0	0	0	0	2.65
Tank 25-6	0	0	0	0	0.174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tank 25-8	0	0	0	0	8.49	0	0.076	0.11	0.008	0.042	0.068	0.136	0	0	0	0	0	0	0	0.441
Tank 55-4	0	0	0	0	9.01	0	0.081	0.117	0.009	0.045	0.072	0.144	0	0	0	0	0	0	0	0.469
Tank 55-9	0	0	0	0	9.01	0	0.081	0.117	0.009	0.045	0.072	0.144	0	0	0	0	0	0	0	0.469
Insignificant Activities													0	0	0	0	0	0	0	0
Tanks 80-1, 150-10, and 150-11	0	0	0	0	3.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tank 25-2	0	0	0	0	0.645	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Tank 25-3	0	0	0	0	0.64	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Tank 25-7	0	0	0	0	0.64	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Asphalt/Slurry/Heavy Oil Loading Rack	0	0	0	0	0.722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas-fired hot oil heaters	0.105	0.419	0.033	5.52	0.304	4.64	0.0001	0.0002	0	0	0	0.099	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	0.104
Liquid propane gas office furnace	0.003	0.003	0.0002	0.091	0.002	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold Cleaner Degreaser	0	0	0	0	0.486	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.108	0.422	0.033	5.61	2085.063	4.65	0.698	1.01	0.078	0.401	0.62	1.34	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	4.15

Controlled/Limited Potential Emissions

Significant Emission Units	PM (tons/yr)	PM-10 (tons/yr)	SO2 (tons/yr)	NOx (tons/yr)	VOC (tons/yr)	CO (tons/yr)	Benzene (tons/yr)	Toluene (tons/yr)	Ethylbenzen (tons/yr)	Xylene (tons/yr)	Trimethylpe (tons/yr)	Hexane (tons/yr)	chloro-benze (tons/yr)	Formal-dehyde (tons/yr)	Lead (tons/yr)	Cadmium (tons/yr)	Chromium (tons/yr)	Manganese (tons/yr)	Nickel (tons/yr)	Total HAPs (tons/yr)
Barge Loading/Unloading	0	0	0	0	56.7	0	0.459	0.663	0.051	0.255	0.408	0.816	0	0	0	0	0	0	0	2.65
Tank 25-6	0	0	0	0	0.174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tank 25-8	0	0	0	0	8.49	0	0.076	0.11	0.008	0.042	0.068	0.136	0	0	0	0	0	0	0	0.441
Tank 55-4	0	0	0	0	9.01	0	0.081	0.117	0.009	0.045	0.072	0.144	0	0	0	0	0	0	0	0.469
Tank 55-9	0	0	0	0	9.01	0	0.081	0.117	0.009	0.045	0.072	0.144	0	0	0	0	0	0	0	0.469
Insignificant Activities													0	0	0	0	0	0	0	0
Tanks 80-1, 150-10, and 150-11	0	0	0	0	3.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tank 25-2	0	0	0	0	0.645	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Tank 25-3	0	0	0	0	0.64	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Tank 25-7	0	0	0	0	0.64	0	0.0001	0.002	0.0003	0.004	0	0.0001	0	0	0	0	0	0	0	0.007
Asphalt/Slurry/Heavy Oil Loading Rack	0	0	0	0	0.722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas-fired hot oil heaters	0.105	0.419	0.033	5.52	0.304	4.64	0.0001	0.0002	0	0	0	0.099	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	0.104
Liquid propane gas office furnace	0.003	0.003	0.0002	0.091	0.002	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold Cleaner Degreaser	0	0	0	0	0.486	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.108	0.422	0.033	5.61	90.163	4.65	0.698	1.01	0.078	0.401	0.62	1.34	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	4.15

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal
Source Location:	1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
County:	Posey
SIC Code:	5171
Permit Renewal No.:	F 129-23302-00006
Permit Reviewer:	Michael A. Morrone/MES

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal relating to the operation of a petroleum products distribution source.

History

On June 30, 2006, Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal submitted an application to the OAQ requesting to renew its operating permit. Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal was issued its first FESOP Renewal, F 129-13956-00006, on April 15, 2002.

With its application, Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal stated that the one (1) distillate, gasoline, and/or neat ethanol loading rack, the one (1) fixed roof Transmix storage tank, identified as T-5, and the two (2) fixed roof gasoline additive storage tanks, identified as AA-10-1 and AA-10-4, have been removed from the source and requested their removal from the permit. While this request has lowered the source's unrestricted potential to emit VOC to less than one hundred (100) tons per year, the unrestricted potential to emit an individual HAP to less than ten (10.0) tons per year, and the unrestricted potential to emit a combination of all HAPs to less than twenty-five (25.0) tons per year, the source has requested to obtain a FESOP Renewal in anticipation of future modifications.

Permitted Emission Units and Pollution Control Equipment

- (a) Crude oil, distillate, gasoline, neat ethanol, asphalt, and slurry barge loading/unloading facilities, installed in 1953 and repaired in 2001, maximum throughput: 30,000,000 gallons of gasoline or crude oil, 20,000,000 gallons of neat ethanol, 300,000,000 gallons of kerosene, 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oil per year. Distillate will include kerosene, #2 fuel oil, #6 fuel oil, or other oil with a vapor pressure less than 1.5 psi.
- (b) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid storage tank, identified as 25-6, installed in 1953, equipped with an internal floating roof, installed on May 19, 1997, capacity: 975,996 gallons.
- (c) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 25-8, installed in 1953, capacity: 939,246 gallons.
- (d) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-4, installed in 1954, capacity: 2,099,748 gallons.
- (e) One (1) crude oil, distillate, gasoline, and/or neat ethanol liquid external floating roof storage tank, identified as 55-9, installed in 1953, capacity: 2,092,146 gallons.

Emission Units and Pollution Control Equipment Constructed and/or Operated without a Permit

The source does not consist of any emission units and pollution control equipment constructed and/or operated without a permit.

Emission Units and Pollution Control Equipment Removed From the Source or Removed From Service

The following emission units and pollution control equipment have physically been removed from the source:

- (a) One (1) distillate, gasoline, and/or neat ethanol loading rack, installed in 1954, equipped with one (1) carbon adsorber vapor recovery unit, installed in December 1995, and three (3) backup trailer mounted thermal incinerators.
- (b) One (1) fixed roof gasoline additive storage tank, identified as Tank AA-2-3, storage capacity: 1,932 gallons of gasoline additives.

The following emission units and air pollution control equipment have been removed from operation, but are still physically at the source:

- (a) One (1) fixed roof Transmix storage tank, identified as T-5, with a storage capacity of 33,180 gallons of Transmix.
- (c) Two (2) fixed roof gasoline additive storage tanks, identified as AA-10-1 and AA-10-4. Tank AA-10-1 had a storage capacity of 8,400 gallons of gasoline additives and Tank AA-10-4 had a storage capacity of 11,340 gallons of gasoline additives.

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, rated at a total of 12.6 million British thermal units per hour, including:
 - Two (2) natural gas-fired hot oil heaters, installed in April 1995, rated at: 6.3 million British thermal units per hour, each.
- (b) Combustion source flame safety purging on startup.
- (c) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (d) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (e) Closed loop heating and cooling systems.
- (f) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume.
- (g) Process vessel degassing and cleaning to prepare for internal repairs.

- (h) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].
- (i) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (j) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (k) Three (3) fixed roof asphalt or slurry storage tanks, identified as Tank 80-1, Tank 150-10, and Tank 150-11. Tank 80-1 has a storage capacity of 3,103,377 gallons of asphalt or slurry, Tank 150-10 has a capacity of 6,271,103 gallons of asphalt or slurry, and Tank 150-11 has a storage capacity of 6,273,122 gallons of asphalt or slurry.
- (l) Three (3) fixed roof No. 2 fuel oil or kerosene storage tanks, identified as Tank 25-2, Tank 25-3, and Tank 25-7. Tank 25-2 has a storage capacity of 1,033,368 gallons of No. 2 fuel oil or kerosene, Tank 25-3 has a storage capacity of 1,028,202 gallons of No. 2 fuel oil or kerosene, and Tank 25-7 has a storage capacity of 1,028,832 gallons of No.2 fuel oil or kerosene.
- (m) One (1) asphalt, slurry, and heavy oil (products with characteristics of No. 6 residual oil, vacuum tower bottoms, and vacuum gas oil) loading rack, constructed in 1995, maximum throughput: 40,000,000 gallons of asphalt, 40,000,000 gallons of slurry, and 20,000,000 gallons of heavy oils.
- (n) One (1) liquid propane gas-fired office furnace, installed in 2005, heat input capacity: 0.100 million British thermal units per hour.
- (o) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6, installed after 1990, consisting of one (1) cold cleaner degreaser [326 IAC 8-3-2] [326 IAC 8-3-5].

Existing Approvals

Since the issuance of the **FESOP 129-13956-00006** on April 15, 2002, the source has constructed or has been operating under the following approvals as well:

- (a) Administrative Amendment 129-16013-00006, issued on June 5, 2002,
- (b) Administrative Amendment 129-17403-00006, issued on April 22, 2003,
- (c) Administrative Amendment 129-17332-00006, issued on June 6, 2003, and
- (d) Administrative Amendment 129-21648-00006, issued on November 21, 2005.

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

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this **FESOP Renewal**:

All conditions within Sections D.1 through D.3 from F 129-13956-00006, issued on April 15, 2002.

Reason not incorporated:

Since the last approval issued to the source, Administrative Amendment 129-21648-00006, issued on November 21, 2005, the one (1) distillate, gasoline, and/or neat ethanol loading rack, installed in 1954, equipped with one (1) carbon adsorber vapor recovery unit, installed in December 1995, and three (3) backup trailer mounted thermal incinerators have been removed from the source. All throughput limitations and testing requirements that previously were in the permit in Section D.1 for the truck loading rack are no longer necessary. In addition, the unrestricted potential VOC emissions from the entire source are now less than one hundred (100) tons per year, the unrestricted potential emissions of an individual HAP are less than ten (10.0) tons per year, and the unrestricted potential emissions of a combination of all HAPs are less than twenty-five (25.0) tons per year, so no throughput limitations are necessary for the remaining barge loading facilities. For the same reasons, no limitations are necessary for the storage tanks in operation at the source, as was previously required by Section D.2 of F 129-13959-00006.

Enforcement Issue

There are no enforcement actions pending.

Stack Summary

This source is a petroleum products distribution source and has no stacks.

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Posey County

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

Note: On September 6, 2007 the Indiana Air Pollution Control Board finalized a temporary emergency rule to redesignate Allen, Clark, Elkhart, Floyd, LaPorte, and St. Joseph counties as attainment for the 8-hour ozone standard.

- (a) Posey County has been classified as unclassifiable or attainment for PM_{2.5}. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM_{2.5} emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM_{2.5} emissions, it has directed states to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions. See the State Rule Applicability – Entire Source section.

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

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	0.108
PM ₁₀	0.422
SO ₂	0.033
VOC	99.5
CO	4.65
NO _x	5.61

HAPs	tons/year
Hexane	1.34
Toluene	1.01
Benzene	0.698
2,2,4 Trimethylpentane	0.620
Xylene	0.401
Ethylbenzene	0.078
Formaldehyde	0.004
Dichlorobenzene, Lead, Cadmium, Chromium, Manganese, Nickel	Less than or equal to 0.001
Total	4.15

- (a) The potential to emit VOC was greater than one hundred (100) tons per year, the potential to emit an individual HAP was greater than ten (10.0) tons per year, and the potential to emit a combination of all HAPs was greater than twenty-five (25.0) tons per year when FESOP F 129-13956-00006 was issued on April 15, 2002. The source limited VOC emissions to less than one hundred (100) tons per year, individual HAP emissions to less than ten (10.0) tons per year, and a combination of all HAPs emissions to less than twenty-five (25.0) tons per year.

The potential to emit VOC has fallen below one hundred (100) tons per year, the potential to emit an individual HAP has fallen below ten (10.0) tons per year, and the combination of all HAPs has fallen below twenty-five (25.0) tons per year because the source has removed the distillate, gasoline, and/or neat ethanol loading rack, the fixed roof Transmix storage tank, identified as T-5, and the three (3) fixed roof gasoline additive storage tanks, identified as AA-2-3, AA-10-1 and AA-10-4, from operation. Even though the unrestricted potential emissions of all criteria pollutants are below one-hundred (100) tons per year and the potential emissions of a single HAP are less than ten (10) tons per year and the potential to emit of a combination of all HAPs is less than twenty-five (25) tons per year, Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal. has requested to remain a FESOP source.

- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all other criteria pollutants are less than one hundred (<100) tons per year.

Fugitive Emissions

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

Actual Emissions

No previous emission data has been received from the source.

Potential to Emit After Issuance

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

Process/Emission Unit	Potential to Emit (tons/year)						
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Barge Loading/Unloading	-	-	-	66.0	-	-	0.816 single (Hexane); 2.65 total
Tank 25-6	-	-	-	0.174	-	-	-
Tank 25-8	-	-	-	8.49	-	-	0.136 single (Hexane); 0.441 total
Tank 55-4	-	-	-	9.01	-	-	0.144 single (Hexane); 0.469 total

Process/Emission Unit	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Tank 55-9	-	-	-	9.01	-	-	0.144 single (Hexane); 0.469 total
Insignificant Activities							
Tanks 80-1, 150-10, and 150-11	-	-	-	3.34	-	-	-
Tank 25-2	-	-	-	0.645	-	-	0.004 single (Xylene); 0.007 total
Tank 25-3	-	-	-	0.640	-	-	0.004 single (Xylene); 0.007 total
Tank 25-7	-	-	-	0.640	-	-	0.004 single (Xylene); 0.007 total
Asphalt/Slurry/Heavy Oil Loading Rack	-	-	-	0.722	-	-	-
Natural gas-fired hot oil heaters	0.105	0.419	0.033	0.304	4.64	5.52	0.099 single (Hexane); 0.104 total
Liquid Propane gas office furnace	0.003	0.003	0.0002	0.002	0.015	0.091	-
Cold Cleaner Degreaser	-	-	-	0.486	-	-	
Total	0.108	0.422	0.033	99.5	4.65	5.61	1.34 single (Hexane); 4.15 total
Major Source Threshold	250	250	250	250	250	250	-

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

Federal Rule Applicability

- (a) The two (2) insignificant natural gas-fired hot oil heaters and the liquid propane gas-fired office furnace have heat input capacities of less than two hundred and fifty (250) mmBtu/hr, each. Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart D, Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971 and Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for

Which Construction is Commenced After September 18, 1978, are not included in the permit.

- (b) The two (2) insignificant natural gas-fired hot oil heaters and the liquid propane gas-fired office furnace have heat input capacities of less than ten (10.0) mmBtu/hr, each. Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units and Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, are not included in the permit.
- (c) This source is not a petroleum refinery. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart J, Standards of Performance for Petroleum Refineries, are not included in the permit.
- (d) The four (4) storage tanks, identified as 25-6, 25-8, 55-4, and 55-9, were constructed before June 11, 1973. The 1997 addition of an internal floating roof for storage tank 25-6 was not considered a modification because the potential to emit did not increase and was not considered a reconstruction because the installation cost was less than fifty percent (50%) of the replacement cost of the tank.

Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, are not included in the permit.

- (e) The three (3) storage tanks, identified as 80-1, 150-10, and 150-11, each have capacities of greater than 40,000 gallons, but store asphalt, which is not a petroleum liquid. Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978, Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984, and Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, are not included in the permit.
- (f) The three (3) storage tanks, identified as 25-2, 25-3, and 25-7, each have capacities of greater than 40,000 gallons, but store No. 2 fuel oil, which pursuant to 40 CFR 60.111(b) is not a petroleum liquid. Therefore, the requirements of the New Source Performance Standards, 40 CFR 60, Subpart K, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978, and Subpart Ka, Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984 are not included in the permit.
- (g) The three (3) storage tanks, identified as 25-2, 25-3, and 25-7, each have capacities greater than 151 m³ (39,889.9 gallons), but store petroleum liquids that have vapor pressures less than 3.5 kPa. Therefore, pursuant to 40 CFR 60.110(b), the

requirements of the New Source Performance Standard, 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, are not included in the permit.

- (h) The three (3) storage tanks, identified as 80-1, 150-10, and 150-11, store asphalt but not for the purposes of roofing. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart UU, Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture, are not included in the permit.
- (i) This source is not a petroleum refinery. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart GGG, Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries, are not included in the permit.
- (j) This source is not a petroleum refinery. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart QQQ, Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems, are not included in the permit.
- (k) There are no other New Source Performance Standards (40 CFR 60 and 326 IAC 12) included in the permit for this source.
- (l) This source is an area source for Hazardous Air Pollutants (HAPs). Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart R, National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations), are not included in the permit.
- (m) The insignificant degreasing operations do not use halogenated solvents. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart T, National Emission Standards for Halogenated Solvent Cleaning, are not included in the permit.
- (n) This source is an area source for HAPs. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart Y, National Emission Standards for Marine Tank Vessel Loading Operations, are not included in the permit.
- (o) This source is not a petroleum refinery. Therefore, the requirements of the National Emission Standard for Hazardous Air Pollutants, 40 CFR 63, Subpart CC, National Emission Standards for Hazardous Air Pollutants From Petroleum Refineries, are not included in the permit.
- (p) There are no other National Emission Standards for Hazardous Air Pollutants (40 CFR 63) included in the permit for this source.

State Rule Applicability – Entire Source

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

The unrestricted potential emissions of all criteria pollutants are less than two hundred fifty (250) tons per year. Therefore, this source, which is not one (1) of the twenty-eight (28) source categories, is a minor source pursuant to 326 IAC 2-2, PSD.

326 IAC 2.4-1 (Major Sources of Hazardous Air Pollutants (HAPs))

- (a) The insignificant degreasing operations and the liquid propane gas office furnace, both installed after July 27, 1997, each have individual HAP emissions of less than ten (10.0) tons per year and a combination of all HAPs emissions of less than twenty-five (25.0) tons per year. Therefore, the requirements of 326 IAC 2.4-1 (Major Sources of Hazardous Air Pollutants (HAPs)) are not applicable to these facilities.
- (b) All of the remaining facilities in operation at the source were constructed prior to July 27, 1997. Therefore, the requirements of 326 IAC 2.4-1 (Major Sources of Hazardous Air Pollutants (HAPs)) are not applicable to these facilities.

326 IAC 2-6 (Emission Reporting)

This source is located in Posey County and the potential to emit of each criteria pollutant is less than one hundred (<100) tons per year. Therefore, the requirements of 326 IAC 2-6 do not apply.

326 IAC 2-8-4 (FESOP)

- (a) The unrestricted potential to emit of all criteria pollutants is less than one-hundred (100) tons per year, less than ten (10.0) tons per year for a single HAP, and less than twenty-five (25.0) tons per year for a combination of all HAPs, rendering the requirements of 326 IAC 2-7, Part 70, not applicable. This source would require an MSOP under 326 IAC 2-6.1, but Marathon Petroleum Company, LLC – Mt. Vernon Asphalt Terminal., has requested to remain a FESOP source in anticipation of future modifications.
- (b) Pursuant to 326 IAC 2-6.1-1(1)(B), this source is an existing source under a federally enforceable state operating permit (FESOP) under 326 IAC 2-8. Therefore, the requirements of 326 IAC 2-6.1, MSOP, are not applicable.

326 IAC 5-1 (Opacity Limitations)

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

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

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

State Rule Applicability – Individual Facilities

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

- (a) The four (4) storage tanks, identified as 25-6, 25-8, 55-4, and 55-9, were each constructed before January 1, 1980. The 1997 additional of an internal floating roof at Tank 25-6 did not qualify as a modification because the potential to emit did not increase and did not qualify as a reconstruction because the installation cost of the roof was less than fifty percent (50%) of the total replacement cost of the tank. Therefore, pursuant to 326 IAC 8-4-1(d), the requirements of 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) are not applicable to these facilities.
- (b) The three (3) storage tanks, identified as 25-2, 25-3, and 25-7, each have capacities of greater than 39,000 gallons, but store petroleum liquids whose true vapor pressure is less than 10.5 kPa (1.52 psia). Therefore, pursuant to 326 IAC 8-4-3(a), the requirements of 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) are not applicable to these facilities.
- (c) The three (3) storage tanks, identified as 80-1, 150-10, and 150-11, store asphalt and slurry, which are not petroleum liquids. Therefore, the requirements of 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) are not applicable.

326 IAC 8-4-4 (Bulk Gasoline Terminals)

The barge loading facilities load gasoline onto barges. Therefore, pursuant to 326 IAC 8-4-4(a), the requirements of 326 IAC 8-4-4 (Bulk Gasoline Terminals) are not applicable to these facilities.

326 IAC 8-4-5 (Bulk Gasoline Plants)

This source is not a bulk gasoline plant. Therefore, the requirements of 326 IAC 8-4-5 (Bulk Gasoline Plants) are not applicable.

326 IAC 8-4-7 (Gasoline Transports)

This source does not operate a gasoline transport. Therefore, the requirements of 326 IAC 8-4-7 (Gasoline Transports) are not applicable.

326 IAC 8-4-8 (Leaks from petroleum refineries; monitoring; reports)

This source is not a petroleum refinery. Therefore, the requirements of 326 IAC 8-4-8 (Leaks from petroleum refineries; monitoring; reports) are not applicable.

326 IAC 8-4-9 (Leaks from transports and vapor collection systems; records)

The source was subject to this rule because it was equipped with a truck loading rack which had a carbon adsorber vapor recovery unit, and three (3) backup trailer mounted thermal incinerators. However, the source has removed this equipment. Therefore, the requirements of 326 IAC 8-4-9 (Leaks from transports and vapor collection systems; records) are no longer applicable.

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

This source is located in Posey County. Therefore, the requirements of 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels) are not applicable.

State Rule Applicability – Insignificant Activities

326 IAC 6-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating)

The two (2) natural gas-fired hot oil heaters and the one (1) liquid propane gas office furnace are not sources of indirect heating. Therefore, the requirements of 326 IAC 6-2 (Particulate Matter Emission Limitations for Sources of Indirect Heating) are not applicable to these facilities.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

The particulate matter emissions from the two (2) natural gas-fired hot oil heaters and the one (1) liquid propane gas office furnace are less than 0.551 pounds per hour. Therefore, pursuant to 326 IAC 6-3-1(b)(14), the requirements of 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) are not applicable to these facilities.

326 IAC 8-3-2 (Cold Cleaner Operation)

The insignificant degreasing operations were constructed after January 1, 1980. Therefore, pursuant to 326 IAC 8-3-1(a)(2), the requirements of 326 IAC 8-3-2 (Cold Cleaner Operation) are applicable. Pursuant to 326 IAC 8-3-2, the owner or operator of a cold cleaner facility shall:

- (a) equip the cleaner with a cover;
- (b) equip the cleaner with a facility for draining cleaned parts;
- (c) close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (e) provide a permanent, conspicuous label summarizing the operating requirements;
- (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

- (a) The insignificant degreasing operations were constructed after July 1, 1990. Therefore, pursuant to 326 IAC 8-3-1(b)(2), the requirements of 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control) are applicable. Pursuant to 326 IAC 8-3-5, the owner of operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) the solvent is agitated; or
 - (C) the solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) The owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
 - (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

326 IAC 8-4-4 (Bulk Gasoline Terminals)

The insignificant truck loading rack does not load gasoline. Therefore, the requirements of 326 IAC 8-4-4 (Bulk Gasoline Terminals) are not applicable to this facility.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

The Compliance Determination Requirements applicable to this source are as follows:

There are no Compliance Determination Requirements applicable to this source.

The Compliance Monitoring requirements applicable to this source are as follows:

There are no Compliance Monitoring Requirements applicable to this source.

Recommendation

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

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

An application for the purposes of this review was received on June 30, 2006. Additional information was received on October 19, 2007.

Conclusion

The operation of this petroleum products distribution source shall be subject to the conditions of the attached **FESOP Renewal No. F 129-23302-00006**.

**Appendix A: Emission Calculations
Loading Rack Emissions - Asphalt**

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Asphalt Loading

LL = 12.46(S*P*M/T) - AP 42 Section 5.2

Where:

LL = Loading Loss, pounds per 1000 gallons (lb/10³ gal) of liquid loaded
 S = Saturation factor (AP 42, Table 5.2-1)
 P = True vapor pressure of liquid loaded, pounds per square inch absolute (psia)
 M = Molecular weight of vapors, pounds per pound-mole (lb/lb-mole)
 T = Temperature of bulk liquid loaded °R (°F +460)

For Gasoline:

S = 1.450 (from AP 42, Table 5.2-1)
 P = 0.02 psia (at 60°F, -520°R) (from AP-42, Table 7.1-2)
 M = 95.0 lb/lbmol
 T = 785 °R
 LL* = 0.034 lb/10³ gal

Total Asphalt Throughput

Max Annual Throughput = 40,000,000 gals/yr asphalt

Uncontrolled VOC Emissions

LL	0.034	lb/10 ³ gal
Max Annual Throughput	40,000,000	gal/yr asphalt
Annual VOC Emissions	1374	lbs/yr
Annual VOC Emissions	0.687	tons/yr

METHODOLOGY

Annual VOC Emissions (lbs/yr) = LL * Max Annual Throughput
 Annual VOC Emissions (tons/yr) = Annual VOC Emissions (lbs/yr) /2000 lbs/ton

**Appendix A: Emission Calculations
Loading Rack Emissions - Heavy Oil**

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Heavy Oil Loading

$LL = 12.46(S \cdot P \cdot M / T)$ - AP 42 Section 5.2

Where:

LL = Loading Loss, pounds per 1000 gallons (lb/10³ gal) of liquid loaded
 S = Saturation factor (AP 42, Table 5.2-1)
 P = True vapor pressure of liquid loaded, pounds per square inch absolute (psia)
 M = Molecular weight of vapors, pounds per pound-mole (lb/lb-mole)
 T = Temperature of bulk liquid loaded °R (°F +460)

For Gasoline:

S = 1.450 (from AP 42, Table 5.2-1)
 P = 0.00 psia (at 60°F, -520°R) (from AP-42, Table 7.1-2)
 M = 190.0 lb/lbmol
 T = 560 °R
 LL* = 0.001 lb/10³ gal

Total Asphalt Throughput

Max Annual Throughput = 20,000,000 gals/yr heavy oil

Uncontrolled VOC Emissions

LL	0.0012	lb/10 ³ gal
Max Annual Throughput	20,000,000	gal/yr asphalt
Annual VOC Emissions	23	lbs/yr
Annual VOC Emissions	0.012	tons/yr

METHODOLOGY

Annual VOC Emissions (lbs/yr) = LL * Max Annual Throughput
 Annual VOC Emissions (tons/yr) = Annual VOC Emissions (lbs/yr) /2000 lbs/ton

**Appendix A: Emission Calculations
Loading Rack Emissions - Slurry**

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Slurry Loading

$LL = 12.46(S \cdot P \cdot M / T)$ - AP 42 Section 5.2

Where:

LL = Loading Loss, pounds per 1000 gallons (lb/10³ gal) of liquid loaded
 S = Saturation factor (AP 42, Table 5.2-1)
 P = True vapor pressure of liquid loaded, pounds per square inch absolute (psia)
 M = Molecular weight of vapors, pounds per pound-mole (lb/lb-mole)
 T = Temperature of bulk liquid loaded °R (°F +460)

For Gasoline:

S = 1.450 (from AP 42, Table 5.2-1)
 P = 0.00019 psia (at 60°F, -520°R) (from AP-42, Table 7.1-2)
 M = 190.0 lb/lbmol
 T = 560 °R
 LL* = 0.001 lb/10³ gal

Total Asphalt Throughput

Max Annual Throughput = 40,000,000 gals/yr heavy oil

Uncontrolled VOC Emissions

LL	0.001	lb/10 ³ gal
Max Annual Throughput	40,000,000	gal/yr asphalt
Annual VOC Emissions	47	lbs/yr
Annual VOC Emissions	0.023	tons/yr

METHODOLOGY

Annual VOC Emissions (lbs/yr) = LL * Max Annual Throughput
 Annual VOC Emissions (tons/yr) = Annual VOC Emissions (lbs/yr) /2000 lbs/ton

**Appendix A: Emission Calculations
Barge Loading Emissions - Gasoline**

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Truck and Barge Unloading/Loading Emissions

Product	Throughput (gals/yr)	VOC Emission Factor (lbs/gal)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)
Gasoline	30,000,000	0.003	102000	51.0
Ethanol	20,000,000	0.001	25600	12.8
Kerosene	300,000,000	0.00001	3900	1.95
Asphalt	40,000,000	0.00001	480	0.240
Slurry	40,000,000	0.0000004	16.0	0.008
Heavy Oil	20,000,000	0.0000004	8.00	0.004
Totals			132004	66.0

Methodology

VOC emission Factor from AP-42 Table 5.2-2 for Gasoline and converted to lbs/gal by dividing by 1,000
 VOC emission Factor from AP-42 Table 5.6-2 for other fuels and converted to lbs/gal by dividing by 1,000
 $VOC\ Emissions\ (lbs/yr) = Throughput\ (gals/yr) \times Emission\ Factor\ (lbs/gal)$
 $VOC\ Emissions\ (tons/yr) = VOC\ Emissions\ (lbs/yr) / 2,000\ lbs/ton$

**Appendix A: Emissions Calculations
Tank VOC Emissions - Potential to Emit**

**Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007**

Tank Number	Product Stored	Losses (Tons per Year)							Total Potential to Emit VOC (tons/yr)
		Standing	Breathing	Working	Withdrawal	Rim Seal	Deck Fitting	Deck Seam	
25-6	Denatured ethanol	0.140	0.00	0.00	0.034	0.093	0.048	0.00	0.174
25-8	Gasoline (RVP 15)	2.57	0.00	0.00	0.003	0.305	2.27	0.00	2.58
25-8	Gasoline (RVP 13)	3.39	0.00	0.00	0.004	0.407	2.99	0.00	3.40
25-8	Gasoline (RVP 10)	0.503	0.00	0.00	0.001	0.070	0.433	0.00	0.504
25-8	Gasoline (RVP 9)	2.01	0.00	0.00	0.004	0.271	1.74	0.00	2.01
55-4	Gasoline (RVP 15)	2.72	0.00	0.00	0.004	0.455	2.27	0.00	2.73
55-4	Gasoline (RVP 13)	3.59	0.00	0.00	0.005	0.607	2.99	0.00	3.60
55-4	Gasoline (RVP 10)	0.537	0.00	0.00	0.001	0.104	0.433	0.00	0.539
55-4	Gasoline (RVP 9)	2.14	0.00	0.00	0.005	0.405	1.74	0.00	2.15
55-9	Gasoline (RVP 15)	2.72	0.00	0.00	0.004	0.455	2.27	0.00	2.73
55-9	Gasoline (RVP 13)	3.59	0.00	0.00	0.005	0.607	2.99	0.00	3.60
55-9	Gasoline (RVP 10)	0.537	0.00	0.00	0.001	0.104	0.433	0.00	0.539
55-9	Gasoline (RVP 9)	2.14	0.00	0.00	0.005	0.405	1.74	0.00	2.15
25-2	Kerosene	0.00	0.085	0.559	0.00	0.00	0.00	0.00	0.645
25-3	Kerosene	0.00	0.093	0.548	0.00	0.00	0.00	0.00	0.640
25-7	Kerosene	0.00	0.093	0.548	0.00	0.00	0.00	0.00	0.640
80-1	Asphalt	0.00	0.506	0.270	0.00	0.00	0.00	0.00	0.776
150-10	Asphalt	0.00	0.956	0.356	0.00	0.00	0.00	0.00	1.31
150-11	Asphalt	0.00	0.90	0.36	0.00	0.00	0.00	0.00	1.25
	TOTALS	26.6	2.63	2.64	0.08	4.29	22.32	0.00	32.0

METHODOLOGY

IDEM, OAQ has calculated all storage tanks emissions using USEPA's TANKs 4.09d software program and all emissions are based on the estimated maximum annual throughput for each tank.

**Appendix A: Emissions Calculations
Tank or Barge Loading HAP Emissions -
Potential to Emit**

**Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007**

Tank Number or Loading Rack	Product Stored	VOC Emissions (tons/yr)	Weight % Benzene	Weight % Toluene	Weight % Ethylbenzene	Weight % Xylene	Weight % 2,2,4 Trimethylpentane	Weight % Hexane	Benzene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Ethylbenzene Emissions (tons/yr)	Xylene Emissions (tons/yr)	2,2,4 Trimethylpentane Emissions (tons/yr)	Hexane Emissions (tons/yr)	Total HAPs (tons/yr)
25-6	Denatured Ethanol	0.174	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25-8	Gasoline (RVP 15)	2.58	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.023	0.034	0.003	0.013	0.021	0.041	0.13
25-8	Gasoline (RVP 13)	3.40	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.031	0.044	0.003	0.017	0.027	0.054	0.18
25-8	Gasoline (RVP 10)	0.504	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.005	0.007	0.001	0.003	0.004	0.008	0.026
25-8	Gasoline (RVP 9)	2.01	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.018	0.0261	0.002	0.010	0.016	0.032	0.10
55-4	Gasoline (RVP 15)	2.73	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.025	0.035	0.003	0.014	0.022	0.044	0.14
55-4	Gasoline (RVP 13)	3.60	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.032	0.047	0.004	0.018	0.029	0.058	0.19
55-4	Gasoline (RVP 10)	0.539	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.005	0.007	0.001	0.003	0.004	0.009	0.028
55-4	Gasoline (RVP 9)	2.15	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.019	0.028	0.002	0.011	0.017	0.034	0.11
55-9	Gasoline (RVP 15)	2.73	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.025	0.035	0.003	0.014	0.022	0.044	0.14
55-9	Gasoline (RVP 13)	3.60	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.032	0.047	0.004	0.018	0.029	0.058	0.19
55-9	Gasoline (RVP 10)	0.54	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.005	0.007	0.001	0.003	0.004	0.009	0.028
55-9	Gasoline (RVP 9)	2.15	0.900%	1.30%	0.100%	0.500%	0.800%	1.60%	0.019	0.028	0.002	0.011	0.017	0.034	0.11
25-2	Kerosene	0.645	0.020%	0.260%	0.040%	0.690%	0.00%	0.010%	0.0001	0.002	0.0003	0.004	0.00	0.000	0.007
25-3	Kerosene	0.640	0.020%	0.260%	0.040%	0.690%	0.00%	0.010%	0.0001	0.002	0.0003	0.004	0.00	0.000	0.007
25-7	Kerosene	0.640	0.020%	0.260%	0.040%	0.690%	0.00%	0.010%	0.0001	0.002	0.0003	0.004	0.00	0.000	0.007
80-1	Asphalt	0.776	0.00%	0.00%	0.00%	0.00%	0.00%	0.000%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150-10	Asphalt	1.31	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150-11	Asphalt	1.25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Barge Loading	Gasoline and/or crude oil	51.0	0.900%	1.30%	0.100%	0.50%	0.800%	1.60%	0.46	0.66	0.05	0.26	0.41	0.816	2.7
Barge Loading	Denatured Ethanol	12.8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Barge Loading	Distillate	1.95	0.020%	0.26%	0.040%	0.690%	0.00%	0.010%	0.000	0.005	0.001	0.013	0.000	0.000	0.020
Barge Loading	Asphalt/Slurry/Heavy Oil	0.252	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Truck Loading	Asphalt/Slurry/Heavy Oil	0.722	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	TOTALS	98.7							0.698	1.01	0.08	0.40	0.620	1.240	4.1

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

**Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007**

Insignificant natural gas-fired hot oil heaters

Heat Input Capacity Potential Throughput
MMBtu/hr MMCF/yr

12.6

110

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.90	7.60	0.600	100	5.50	84.0
				**see below		
Potential Emission in tons/yr	0.105	0.419	0.033	5.52	0.304	4.64

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

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

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

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

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

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

See page 8 for HAPs emissions calculations.

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

**Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
 Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
 FESOP Renewal: F 129-23302-00006
 Reviewer: Michael A. Morrone/MES
 Date: October 26, 2007**

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 0.002	Dichlorobenzene 0.001	Formaldehyde 0.075	Hexane 1.80	Toluene 0.003
Potential Emission in tons/yr	0.0001	0.0001	0.004	0.099	0.0002

HAPs - Metals						
Emission Factor in lb/MMcf	Lead 0.0005	Cadmium 0.001	Chromium 0.001	Manganese 0.0004	Nickel 0.002	Total
Potential Emission in tons/yr	0.00003	0.0001	0.0001	0.00002	0.0001	0.104

Methodology is the same as page 7.

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

Appendix A: Emission Calculations
Insignificant Liquid Propane Gas fired office furnace

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

SO2 Emission factor = 0.10 x S

S = Sulfur Content = 0.50 grains/100ft³

0.100

9.57

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO2 (0.10S)	NOx	VOC **TOC value	CO
Potential Emission in tons/yr	0.600	0.600	0.050	19.0	0.500	3.20
	0.003	0.003	0.0002	0.091	0.002	0.015

*PM emission factor is filterable PM only. PM10 emission factor is assumed to be the same as PM based on a footnote in Table 1.5-1, therefore PM10 is filterable only as well.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology

1 gallon of LPG has a heating value of 94,000 Btu

1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)

(Source - AP-42 (Supplement B 10/96) page 1.5-1)

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-02-010-02)

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

**Appendix A: Emission Calculations
Cold Cleaning and Coolant Usage**

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Material	Usage (gal/day)	Density (lbs/gal)	Volume % VOC	Weight % VOC	VOC Emissions (tons/yr)
Cold Cleaner Degreaser					
Crystal Clean 142 Mineral Spirits	0.397	6.70	100%	100%	0.486

Methodology

VOC emissions (tons/yr) = Usage (gal/day) x Density (lbs/gal) x Weight % VOC x 365 days/yr / 2,000 lbs/ton

There are no HAPs in these materials.

Appendix A: Emissions Calculations
Summary

Company Name: Marathon Petroleum Company, LLC - Mt. Vernon Asphalt Terminal
Address City IN Zip: 1200 Old Highway 69 South, Mt. Vernon, Indiana 47620
FESOP Renewal: F 129-23302-00006
Reviewer: Michael A. Morrone/MES
Date: October 26, 2007

Summary of Emissions

Uncontrolled Potential Emissions

Significant Emission Units	PM	PM-10	SO2	NOx	VOC	CO	Benzene	Toluene	Ethylbenzene	Xylene	2,2,4 Trimethylpentane	Hexane	Dichlorobenzene	Formaldehyde	Lead	Cadmium	Chromium	Manganese	Nickel	Total HAPs	
	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	(tons/yr)	
Barge Loading/Unloading	0.00	0.00	0.00	0.00	66.0	0.00	0.459	0.663	0.051	0.255	0.408	0.816	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.65
Tank 25-6	0.00	0.00	0.00	0.00	0.174	0.00	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Tank 25-8	0.00	0.00	0.00	0.00	8.49	0.00	0.076	0.110	0.008	0.042	0.068	0.136	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.441
Tank 55-4	0.00	0.00	0.00	0.00	9.01	0.00	0.081	0.117	0.009	0.045	0.072	0.144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.469
Tank 55-9	0.00	0.00	0.00	0.00	9.01	0.00	0.081	0.117	0.009	0.045	0.072	0.144	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.469
Insignificant Activities													0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Tanks 80-1, 150-10, and 150-11	0.00	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Tank 25-2	0.00	0.00	0.00	0.00	0.645	0.00	0.0001	0.002	0.0003	0.004	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.007
Tank 25-3	0.00	0.00	0.00	0.00	0.640	0.00	0.0001	0.002	0.0003	0.004	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.007
Tank 25-7	0.00	0.00	0.00	0.00	0.640	0.00	0.0001	0.002	0.0003	0.004	0.00	0.0001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.007
Asphalt/Slurry/Heavy Oil Loading Rack	0.00	0.00	0.00	0.00	0.722	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
Natural gas-fired hot oil heaters	0.105	0.419	0.033	5.52	0.304	4.64	0.0001	0.0002	0.00	0.00	0.00	0.099	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	0.0001	0.104
Liquid propane gas office furnace	0.003	0.003	0.0002	0.091	0.002	0.015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cold Cleaner Degreaser	0.00	0.00	0.00	0.00	0.486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.108	0.422	0.033	5.61	99.5	4.65	0.698	1.01	0.078	0.401	0.620	1.34	0.0001	0.004	0.00003	0.0001	0.0001	0.00002	0.0001	0.0001	4.15