INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

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: December 28, 2007

RE: Buckeye Terminals, LLC - Hartsdale Station / 089-25305-00291

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, 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 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) 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.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

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:

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(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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impractible to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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
FNTVOP.dot12/3/07

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

Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY

Buckeye Terminals, L.L.C. - Hartsdale Station
45 Division Street
Schererville, Indiana 46375

(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. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 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.: T 089-25305-00291	
Original signed by: Matthew Stuckey, Deputy Branch Chief Permits Branch Office of Air Quality	Issuance Date: December 28, 2007 Expiration Date: December 28, 2012

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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 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a pipeline breakout tank farm source.

Source Address:	45 Division Street, Schererville, Indiana 46375
Mailing Address:	P.O. Box 368, Emmaus, Pennsylvania 18049
General Source Phone Number:	484-232-4000
SIC Code:	4613
County Location:	Lake
Source Location Status:	Nonattainment for $PM_{2.5}$ Moderate nonattainment for the 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Minor Source under PSD Rules Major Source under Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

(a) One (1) internal floating roof storage tank, identified as EU-1610, installed in 1957, modified in 1996, exhausting through Vent 1610, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products. Under 40 CFR 60.100b, NSPS Subpart Kb, this storage tank is an existing affected facility.

(b) One (1) fixed roof storage tank, identified as EU-1611, installed in 1957, exhausting through Vent 1611, capacity: 6,300,000 gallons of distillate and lower vapor pressure petroleum products.

(c) One (1) external floating roof storage tank, identified as EU-1612, installed in 1957, equipped with a geodesic dome roof in January 1997, exhausting through Vent 1612, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products.

(d) One (1) external floating roof storage tank, identified as EU-1613, installed in 1957, equipped with a geodesic dome roof in November 1995, exhausting through Vent 1613, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(e) One (1) fixed roof storage tank, identified as EU-1614, installed in 1957, exhausting through Vent 1614, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(f) One (1) fixed roof storage tank, identified as EU-1615, installed in 1957, exhausting through Vent 1615, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(g) One (1) external floating roof storage tank, identified as EU-1616, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1616, capacity: 3,360,000 gallons of gasoline and lower vapor pressure petroleum products.

(h) One (1) external floating roof storage tank, identified as EU-1617, installed in 1957, equipped with a geodesic dome roof in June 1998, exhausting through Vent 1617, capacity: 3,360,000 gallons of raffinate and lower vapor pressure petroleum products.

(i) One (1) external floating roof storage tank, identified as EU-1618, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1618, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(j) One (1) fixed roof storage tank, identified as EU-1619, installed in 1957, exhausting through Vent 1619, capacity: 5,460,000 gallons of distillate and lower vapor pressure petroleum products.

(k) One (1) internal floating roof storage tank, identified as EU-1620, installed in 1957, exhausting through Vent 1620, capacity: 105,000 gallons of transmix and lower vapor pressure petroleum products.

(l) Two (2) internal floating roof above ground storage tanks, identified as EU-1621 and EU-1622, installed in 1998, each equipped with a vapor mounted primary and rim mounted secondary seal, exhausted through Vents 1621 and 1622, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products, each. Under 40 CFR 60.100b, NSPS Subpart Kb, these storage tanks are existing affected facilities.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source does not currently have any specifically regulated insignificant activities, as defined in 326 IAC 2-7-1 (21) that have applicable requirements.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 Permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-7-1]

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 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

(a) This permit, T 089-25305-00291, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date 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, including any permit shield provided in 326 IAC 2-7-15, 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 2-7-7]

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 2-7-5(5)]

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 2-7-5(6)(D)]

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

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

(a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). 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 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

(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 the "responsible official" 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) The "responsible official" is defined at 326 IAC 2-7-1(34).

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(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 2-7-5(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(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.11 Emergency Provisions [326 IAC 2-7-16]

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

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

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267

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

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

Northwest Regional Office
8315 Virginia Street, Suite 1
Merrillville, Indiana 46410-9201

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 2-7-5(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

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

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). 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 2-7-4(c)(9) 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 2-7 and any other applicable rules.

(g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

B.12 Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]

(a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced 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 Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM,

OAQ has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

(a) All terms and conditions of permits established prior to T 089-25305-00291 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

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 2-7-3 and 326 IAC 2-7-4(a).

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 2-7-9(a)(3)]

(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 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(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 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]

(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 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1 (21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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 2-7 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 Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 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 the "responsible official" as defined by 326 IAC 2-7-1 (34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11 (c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]

(a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.

(b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) 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 preconstruction approval required by 326 IAC 2-7-10.5 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 2-7-20(b),(c), or (e). 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 2-7-20(b)(1), (c)(1), and (e)(2).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(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 2-7-20(c).

(d) Alternative Operating Scenarios [326 IAC 2-7-20(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 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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

(a) Enter upon the Permittee's premises where a Part 70 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 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 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 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.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

(a) The Permittee must comply with the requirements of 326 IAC 2-7-11 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11 (c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [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) Except as provided in 326 IAC 2-7-19(e), 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.25 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [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 2-7-5(1)]

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.3 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.4 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). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(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. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.6 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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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.7 Compliance Requirements [326 IAC 2-1.1-11]

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

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.8 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.9 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 2-7-5] [326 IAC 2-7-6]

C.10 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on November 18, 2005.

(b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.11 Risk Management Plan [326 IAC 2-7-5(12)] [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.12 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation

(2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or

(3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records;

(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall maintain the following records:

(1) monitoring data;

(2) monitor performance data, if applicable; and

(3) corrective actions taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]

(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.14 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:

(1) starting in 2004 and every three (3) years thereafter, and

(2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.

(b) The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

(c) The emission statement required by this permit shall be considered timely if the date post-marked 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.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

(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.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

(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.17 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)]: Storage Tanks

(a) One (1) internal floating roof storage tank, identified as EU-1610, installed in 1957, modified in 1996, exhausting through Vent 1610, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products. Under 40 CFR 60.100b, NSPS Subpart Kb, this storage tank is an existing affected facility.

(b) One (1) fixed roof storage tank, identified as EU-1611, installed in 1957, exhausting through Vent 1611, capacity: 6,300,000 gallons of distillate and lower vapor pressure petroleum products.

(c) One (1) external floating roof storage tank, identified as EU-1612, installed in 1957, equipped with a geodesic dome roof in January 1997, exhausting through Vent 1612, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products.

(d) One (1) external floating roof storage tank, identified as EU-1613, installed in 1957, equipped with a geodesic dome roof in November 1995, exhausting through Vent 1613, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(e) One (1) fixed roof storage tank, identified as EU-1614, installed in 1957, exhausting through Vent 1614, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(f) One (1) fixed roof storage tank, identified as EU-1615, installed in 1957, exhausting through Vent 1615, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(g) One (1) external floating roof storage tank, identified as EU-1616, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1616, capacity: 3,360,000 gallons of gasoline and lower vapor pressure petroleum products.

(h) One (1) external floating roof storage tank, identified as EU-1617, installed in 1957, equipped with a geodesic dome roof in June 1998, exhausting through Vent 1617, capacity: 3,360,000 gallons of raffinate and lower vapor pressure petroleum products.

(i) One (1) external floating roof storage tank, identified as EU-1618, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1618, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(j) One (1) fixed roof storage tank, identified as EU-1619, installed in 1957, exhausting through Vent 1619, capacity: 5,460,000 gallons of distillate and lower vapor pressure petroleum products.

(k) One (1) internal floating roof storage tank, identified as EU-1620, installed in 1957, exhausting through Vent 1620, capacity: 105,000 gallons of transmix and lower vapor pressure petroleum products.

(l) Two (2) internal floating roof above ground storage tanks, identified as EU-1621 and EU-1622, installed in 1998, each equipped with a vapor mounted primary and rim mounted secondary seal, exhausted through Vents 1621 and 1622, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products, each. Under 40 CFR 60.100b, NSPS Subpart Kb, these storage tanks are existing affected facilities.

(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 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-4-3]

(a) Pursuant to 326 IAC 8-4-3 (Petroleum Liquid Storage facilities), the nine (9) storage tanks, identified as EU-1610, EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620 through EU-1622, shall each be equipped with internal floating roofs.

(b) Pursuant to 326 IAC 8-4-3(b)(1), the Permittee shall not allow the operation of the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, unless the following conditions have been met:

(1) The facility has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall unless the source has been retrofitted with equally effective alternative control which has been approved.

(2) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.

(3) All openings, except stub drains, are equipped with covers, lids, or seals such that:

(A) the cover, lid, or seal is in the closed position at all times except when in actual use;

(B) automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;

(C) rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.

(c) Pursuant to 326 IAC 8-4-3(d), the Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the thirteen (13) storage tanks, identified as EU-1610 through EU-1622. Such records shall be maintained for a period of two (2) years and shall be made available to the commissioner upon written request.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-9-4]

Pursuant to 326 IAC 8-9-4(c), the six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, shall comply with the following standards for internal floating roofs:

(a) The internal floating roof shall float on the liquid surface, but not necessarily in complete contact with it, inside a vessel that has a permanently affixed roof.

(b) The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the vessel is completely emptied or subsequently emptied and refilled.

(c) When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(d) Each internal floating roof shall be equipped with one (1) of the following closure devices between the wall of the vessel and the edge of the internal floating roof:

(1) A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).

(2) Two (2) seals mounted one (1) above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(3) A mechanical shoe seal that consists of a metal sheet held vertically against the wall of the vessel by springs or weighted levers and that is connected by braces to the floating roof. A flexible coated fabric, or envelope, spans the annular space between the metal sheet and the floating roof.

(e) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface.

(f) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid that shall be maintained in a closed position at all times (with no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(g) Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(h) Rim space vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(i) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least ninety percent (90%) of the opening.

(j) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-9-5]

Pursuant to 326 IAC 8-9-5(b), the six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, shall comply with the following requirements for internal floating roofs:

(a) Visually inspect the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with volatile organic liquid. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the vessel.

(b) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal, if one is in service, through manholes and roof hatches on the fixed roof at least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this section cannot be repaired in forty-five (45) days and if the vessel

cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the department in the inspection report required in section 326 IAC 8-9-6(c)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(c) For vessels equipped with both primary and secondary seals:

(1) visually inspect the vessel as specified in subdivision (d), at least every five (5) years; or

(2) visually inspect the vessel as specified in subdivision (b).

(d) Visually inspect the internal floating roof, the primary seal, the secondary seal, if one is in service, gaskets, slotted membranes, and sleeve seals each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than ten percent (10%) open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subdivision exist before refilling the vessel with VOL. In no event shall the inspections required by this subsection occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in subdivisions (b) and (c)(2) and at intervals no greater than five (5) years in the case of vessels specified in subdivision (c)(1).

(e) Notify the department in writing at least thirty (30) days prior to the filling or refilling of each vessel for which an inspection is required by subdivisions (a) and (d) to afford the department the opportunity to have an observer present. If the inspection required by subdivision (d) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance of refilling the vessel, the owner or operator shall notify the department at least seven (7) days prior to the refilling of the vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the department at least seven (7) days prior to the refilling.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 8-9-6]

(a) Pursuant to 326 IAC 8-9-6(c), the six (6) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, and EU-1620, shall comply with the following requirements:

(1) Keep a record of each inspection performed as required by 326 IAC 8-9-5(b)(1) through 5(b)(4). Each record shall identify the following:

(A) The vessel inspected by identification number.

(B) The date the vessel was inspected.

(C) The observed condition of each component of the control equipment, including the following:

(i) Seals.

(ii) Internal floating roof.

(iii) Fittings.

(2) If any of the conditions described in 326 IAC 8-9-5(b)(2) are detected during the required annual visual inspection, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:

(A) The vessel by identification number.

(B) The nature of the defects.

(C) The date the vessel was emptied or the nature of and date the repair was made.

(3) After each inspection required by 326 IAC 8-9-5(b)(3) of this rule that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-904 (a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(b) Pursuant to 326 IAC 8-9-6(h), the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, which store a volatile liquid with a maximum true vapor pressure than is normally less than seventy-five hundredths (0.75) psia (jet kerosene) shall maintain a record and notify the department within thirty (30) days when the maximum true vapor pressure of the liquid stored exceeds seventy-five hundredths (0.75) psia.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

Compliance Determination Requirements

D.1.6 Vapor Pressure Determination

The maximum true vapor pressure of the liquids stored in the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, shall be determined using the following methods:

Available data on the storage temperature may be used to determine the maximum true vapor pressure as follows:

(1) The maximum true vapor pressure for volatile organic liquids stored at temperatures above or below the ambient temperature shall correspond to the highest calendar-month average storage temperature. The maximum true vapor pressure for volatile organic liquids stored at the ambient temperature shall correspond to the local maximum monthly average temperature, as reported by the National Weather Service.

(2) For local crude oil or refined petroleum products, the maximum vapor pressure may be determined as follows:

(A) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar month average temperature of

the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 unless the department specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the samples.

(B) The maximum true vapor pressure of each type of crude oil with a Reid vapor pressure less than two (2) pounds per square inch or with physical properties that preclude determination by the recommended method shall be determined from available data and recorded if the estimated maximum true vapor pressure is greater than five-tenths (0.5) psia.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.7 Monitoring

(a) For the three (3) storage tanks, identified as EU-1610, EU-1621, EU-1622, the Permittee shall maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period.

(b) The six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, shall comply with the following requirements:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with volatile organic liquid. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the vessel.

(2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal, if one is in service, through manholes and roof hatches on the fixed roof at least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this section cannot be repaired in forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the department in the inspection report required in section 6(c)(3) of this rule. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(3) For vessels equipped with both primary and secondary seals:

(A) visually inspect the vessel as specified in subdivision (4), at least every five (5) years; or

(B) visually inspect the vessel as specified in subdivision (2).

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal, if one is in service, gaskets, slotted membranes, and sleeve seals each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no

longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than ten percent (10%) open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subdivision exist before refilling the vessel with VOL. In no event shall the inspections required by this subsection occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in subdivisions (2) and (3)(B) and at intervals no greater than five (5) years in the case of vessels specified in subdivision (3)(A).

(5) Notify the department in writing at least thirty (30) days prior to the filling or refilling of each vessel for which an inspection is required by subdivisions (1) and (4) to afford the department the opportunity to have an observer present. If the inspection required by subdivision (4) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance of refilling the vessel, the owner or operator shall notify the department at least seven (7) days prior to the refilling of the vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the department at least seven (7) days prior to the refilling.

(c) The thirteen (13) storage tanks, identified as EU-1610 through EU-1622, have the following Compliance Monitoring Requirement:

Pursuant to 326 IAC 8-4-3(d), the Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed. Such records shall be maintained for a period of two (2) years and shall be made available to the commissioner upon written request.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.8 Record Keeping Requirements

(a) In order to comply with Condition D.1.1, the Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the thirteen (13) storage tanks, identified as EU-1610 through EU-1622 These records shall be maintained for a period of two (2) years and made available to the Commisioner upon request.

(b) In order to comply with Condition D.1.3, the Permitee shall comply with the following:

(1) Keep a record identifying the following:

(A) The vessel inspected by identification number.

(B) The date the vessel was inspected.

(C) The observed condition of each component of the control equipment, including the following:

(i) Seals.

(ii) Internal floating roof.

(iii) Fittings.

(2) If any of the conditions described in 326 IAC 8-9-5(b)(2) are detected during the required annual visual inspection, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:

(A) The vessel by identification number.

(B) The nature of the defects.

(C) The date the vessel was emptied or the nature of and date the repair was made.

(3) After each inspection required by 326 IAC 8-9-5(b)(3) of this rule that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-9-4 (a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(c) In order to comply with Condition D.1.4(a), the Permittee shall maintain records of the following:

(1) The vessel inspected by identification number.

(2) The date the vessel was inspected.

(3) The observed condition of each component of the control equipment, including the following:

(A) Seals.

(B) Internal floating roof.

(C) Fittings.

(4) If any of the conditions described in 326 IAC 8-9-5(b)(2) are detected during the required annual visual inspection, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:

(A) The vessel by identification number.

(B) The nature of the defects.

(C) The date the vessel was emptied or the nature of and date the repair was made.

(5) After each inspection required by 326 IAC 8-9-5(b)(3) of this rule that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a record shall be maintained and

a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-904 (a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(d) In order to comply with Condition D.1.4(b), the Permittee shall maintain a record and notify the department within thirty (30) days when the maximum true vapor pressure of the liquid stored that is normally below seventy-five hundredths (0.75) psia exceeds seventy-five hundredths (0.75) psia.

(e) All records required by (b), (c), and (d) above, shall be maintained for three (3) years, unless otherwise specified. In addition, the following records shall be maintained for the life of the tank:

(1) The vessel identification number.

(2) The vessel dimensions.

(3) The vessel capacity.

(4) A description of the emission control equipment for each vessel described in 326 IAC 8-9-4(a) or (b), or a schedule for installation of emission control equipment on vessels described in 326 IAC 8-9-4(a) or (b), with a certification that the emission control equipment meets the applicable standards.

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

D.1.9 Reporting Requirements

(a) In order to comply with Condition D.1.3, the Permittee shall submit a report containing the following information within thirty (30) days of the required annual visual inspection if any of the conditions described in 326 IAC 8-9-5(b)(2) are detected:

(1) The vessel by identification number.

(2) The nature of the defects.

(3) The date the vessel was emptied or the nature of and date the repair was made.

(4) Additionally, after each inspection required by 326 IAC 8-9-5(b)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-9-4(a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(b) In order to comply with Condition D.1.4(a), the Permittee shall submit reports to the department for the following circumstances:

(1) If any of the conditions described in 326 IAC 8-9-5(b)(2) are detected during the required annual visual inspection, a record shall be maintained and a report shall be

furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:

(A) The vessel by identification number.

(B) The nature of the defects.

(C) The date the vessel was emptied or the nature of and date the repair was made.

(2) If an inspection required by 326 IAC 8-9-5(b)(3) finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-904(a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(c) In order to comply with Condition D.1.4(b), the Permittee shall submit a report to the department within thirty (30) days when the maximum true vapor pressure of the liquid stored that is normally below seventy-five hundredths (0.75) psia exceeds seventy-five hundredths (0.75) psia.

SECTION E.1 NSPS Subpart Kb FACILITY OPERATION CONDITIONS

NSPS Subpart Kb

(a) One (1) internal floating roof storage tank, identified as EU-1610, installed in 1957, modified in 1996, exhausting through Vent 1610, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products. Under 40 CFR 60.100b, NSPS Subpart Kb, this storage tank is an existing affected facility.

(l) Two (2) internal floating roof above ground storage tanks, identified as EU-1621 and EU-1622, installed in 1998, each equipped with a vapor mounted primary and rim mounted secondary seal, exhausted through Vents 1621 and 1622, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products, each. Under 40 CFR 60.100b, NSPS Subpart Kb, these storage tanks are existing affected facilities.

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

New Source Performance Standards (NSPS) Requirements

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

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for the three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622

(b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports 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

E.1.2 NSPS, Subpart Kb, Requirements [40 CFR Part 60, Subpart K]

Pursuant to 40 CFR Part 60, Subpart K, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart Kb as specified as follows.

§ 60.110b Applicability and designation of affected facility.

(a) Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.

(b) This subpart does not apply to storage vessels with a capacity greater than or equal to 151 m^3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) or with a capacity greater than or equal to 75 m^3 but less than 151 m^3 storing a liquid with a maximum true vapor pressure less than 15.0 kPa.

§ 60.111b Definitions.

Terms used in this subpart are defined in the Act, in subpart A of this part, or in this subpart as follows:

Bulk gasoline plant means any gasoline distribution facility that has a gasoline throughput less than or equal to 75,700 liters per day. Gasoline throughput shall be the maximum calculated design throughput as may be limited by

compliance with an enforceable condition under Federal requirement or Federal, State or local law, and discoverable by the Administrator and any other person.

Condensate means hydrocarbon liquid separated from natural gas that condenses due to changes in the temperature or pressure, or both, and remains liquid at standard conditions.

Custody transfer means the transfer of produced petroleum and/or condensate, after processing and/or treatment in the producing operations, from storage vessels or automatic transfer facilities to pipelines or any other forms of transportation.

Fill means the introduction of VOL into a storage vessel but not necessarily to complete capacity.

Gasoline service station means any site where gasoline is dispensed to motor vehicle fuel tanks from stationary storage tanks.

Maximum true vapor pressure means the equilibrium partial pressure exerted by the volatile organic compounds (as defined in 40 CFR 51.100) in the stored VOL at the temperature equal to the highest calendar-month average of the VOL storage temperature for VOL's stored above or below the ambient temperature or at the local maximum monthly average temperature as reported by the National Weather Service for VOL's stored at the ambient temperature, as determined:

(1) In accordance with methods described in American Petroleum institute Bulletin 2517, Evaporation Loss From External Floating Roof Tanks, (incorporated by reference—see §60.17); or

(2) As obtained from standard reference texts; or

(3) As determined by ASTM D2879–83, 96, or 97 (incorporated by reference—see §60.17);

(4) Any other method approved by the Administrator.

Petroleum means the crude oil removed from the earth and the oils derived from tar sands, shale, and coal.

Petroleum liquids means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery.

Process tank means a tank that is used within a process (including a solvent or raw material recovery process) to collect material discharged from a feedstock storage vessel or equipment within the process before the material is transferred to other equipment within the process, to a product or by-product storage vessel, or to a vessel used to store recovered solvent or raw material. In many process tanks, unit operations such as reactions and blending are conducted. Other process tanks, such as surge control vessels and bottoms receivers, however, may not involve unit operations.

Reid vapor pressure means the absolute vapor pressure of volatile crude oil and volatile nonviscous petroleum liquids except liquified petroleum gases, as determined by ASTM D323–82 or 94 (incorporated by reference—see §60.17).

Storage vessel means each tank, reservoir, or container used for the storage of volatile organic liquids but does not include:

(1) Frames, housing, auxiliary supports, or other components that are not directly involved in the containment of liquids or vapors;

(2) Subsurface caverns or porous rock reservoirs; or

(3) Process tanks.

Volatile organic liquid (VOL) means any organic liquid which can emit volatile organic compounds (as defined in 40 CFR 51.100) into the atmosphere.

Waste means any liquid resulting from industrial, commercial, mining or agricultural operations, or from community activities that is discarded or is being accumulated, stored, or physically, chemically, or biologically treated prior to being discarded or recycled.

[52 FR 11429, Apr. 8, 1987, as amended at 54 FR 32973, Aug. 11, 1989; 65 FR 61756, Oct. 17, 2000; 68 FR 59333, Oct. 15, 2003]

§ 60.112b Standard for volatile organic compounds (VOC).

(a) The owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m^3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa or with a design capacity greater than or equal to 75 m^3 but less than 151 m^3 containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 27.6 kPa but less than 76.6 kPa, shall equip each storage vessel with one of the following:

(1) A fixed roof in combination with an internal floating roof meeting the following specifications:

(i) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(ii) Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

(A) A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.

(B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(C) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

(iii) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

(iv) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(v) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(vi) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(vii) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

(viii) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

(2) An external floating roof. An external floating roof means a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Each external floating roof must meet the following specifications:

(i) Each external floating roof shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device is to consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal.

(A) The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in §60.113b(b)(4), the seal shall completely cover the annular space between the edge of the floating roof and tank wall.

(B) The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in §60.113b(b)(4).

(ii) Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof is to be equipped with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Automatic bleeder vents are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Rim vents are to be set to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents are to be gasketed. Each emergency roof drain is to be provided with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening.

(iii) The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.

(3) A closed vent system and control device meeting the following specifications:

(i) The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in part 60, subpart VV, §60.485(b).

(ii) The control device shall be designed and operated to reduce inlet VOC emissions by 95 percent or greater. If a flare is used as the control device, it shall meet the specifications described in the general control device requirements (§60.18) of the General Provisions.

(4) A system equivalent to those described in paragraphs (a)(1), (a)(2), or (a)(3) of this section as provided in §60.114b of this subpart.

§ 60.113b Testing and procedures.

The owner or operator of each storage vessel as specified in §60.112b(a) shall meet the requirements of paragraph (a), (b), or (c) of this section. The applicable paragraph for a particular storage vessel depends on the control equipment installed to meet the requirements of §60.112b.

(a) After installing the control equipment required to meet §60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator shall:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.

(2) For Vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in §60.115b(a)(3). Such a request for an extension must document that

alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(3) For vessels equipped with a double-seal system as specified in §60.112b(a)(1)(ii)(B):

(i) Visually inspect the vessel as specified in paragraph (a)(4) of this section at least every 5 years; or

(ii) Visually inspect the vessel as specified in paragraph (a)(2) of this section.

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in paragraphs (a)(2) and (a)(3)(ii) of this section and at intervals no greater than 5 years in the case of vessels specified in paragraph (a)(3)(i) of this section.

(5) Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by paragraphs (a)(1) and (a)(4) of this section to afford the Administrator the opportunity to have an observer present. If the inspection required by paragraph (a)(4) of this section is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling.

(b) After installing the control equipment required to meet §60.112b(a)(2) (external floating roof), the owner or operator shall:

(1) Determine the gap areas and maximum gap widths, between the primary seal and the wall of the storage vessel and between the secondary seal and the wall of the storage vessel according to the following frequency.

(i) Measurements of gaps between the tank wall and the primary seal (seal gaps) shall be performed during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter.

(ii) Measurements of gaps between the tank wall and the secondary seal shall be performed within 60 days of the initial fill with VOL and at least once per year thereafter.

(iii) If any source ceases to store VOL for a period of 1 year or more, subsequent introduction of VOL into the vessel shall be considered an initial fill for the purposes of paragraphs (b)(1)(i) and (b)(1)(ii) of this section.

(2) Determine gap widths and areas in the primary and secondary seals individually by the following procedures:

(i) Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports.

(ii) Measure seal gaps around the entire circumference of the tank in each place where a 0.32-cm diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel and measure the circumferential distance of each such location.

(iii) The total surface area of each gap described in paragraph (b)(2)(ii) of this section shall be determined by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance.

(3) Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in paragraph (b)(4) of this section.

(4) Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in (b)(4) (i) and (ii) of this section:

(i) The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal shall not exceed 212 Cm^2 per meter of tank diameter, and the width of any portion of any gap shall not exceed 3.81 cm.

(A) One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface.

(B) There are to be no holes, tears, or other openings in the shoe, seal fabric, or seal envelope.

(ii) The secondary seal is to meet the following requirements:

(A) The secondary seal is to be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in paragraph (b)(2)(iii) of this section.

(B) The accumulated area of gaps between the tank wall and the secondary seal shall not exceed 21.2 cm^2 per meter of tank diameter, and the width of any portion of any gap shall not exceed 1.27 cm.

(C) There are to be no holes, tears, or other openings in the seal or seal fabric.

(iii) If a failure that is detected during inspections required in paragraph (b)(1) of §60.113b(b) cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in §60.115b(b)(4). Such extension request must include a demonstration of unavailability of alternate storage capacity and a specification of a schedule that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(5) Notify the Administrator 30 days in advance of any gap measurements required by paragraph (b)(1) of this section to afford the Administrator the opportunity to have an observer present.

(6) Visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.

(i) If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL.

(ii) For all the inspections required by paragraph (b)(6) of this section, the owner or operator shall notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel to afford the Administrator the opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph (b)(6) of this section is not planned and the owner or operator could not have known about the inspection 30 days in advance of refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling.

§ 60.114b Alternative means of emission limitation.

(a) If, in the Administrator's judgment, an alternative means of emission limitation will achieve a reduction in emissions at least equivalent to the reduction in emissions achieved by any requirement in §60.112b, the Administrator will publish in the Federal Register a notice permitting the use of the alternative means for purposes of compliance with that requirement.

(b) Any notice under paragraph (a) of this section will be published only after notice and an opportunity for a hearing.

(c) Any person seeking permission under this section shall submit to the Administrator a written application including:

(1) An actual emissions test that uses a full-sized or scale-model storage vessel that accurately collects and measures all VOC emissions from a given control device and that accurately simulates wind and accounts for other emission variables such as temperature and barometric pressure.

(2) An engineering evaluation that the Administrator determines is an accurate method of determining equivalence.

(d) The Administrator may condition the permission on requirements that may be necessary to ensure operation and maintenance to achieve the same emissions reduction as specified in §60.112b.

§ 60.115b Reporting and recordkeeping requirements.

The owner or operator of each storage vessel as specified in §60.112b(a) shall keep records and furnish reports as required by paragraphs (a), (b), or (c) of this section depending upon the control equipment installed to meet the requirements of §60.112b. The owner or operator shall keep copies of all reports and records required by this section, except for the record required by (c)(1), for at least 2 years. The record required by (c)(1) will be kept for the life of the control equipment.

(a) After installing control equipment in accordance with §60.112b(a)(1) (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(1) and §60.113b(a)(1). This report shall be an attachment to the notification required by §60.7(a)(3).

(2) Keep a record of each inspection performed as required by §60.113b (a)(1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(3) If any of the conditions described in §60.113b(a)(2) are detected during the annual visual inspection required by §60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(4) After each inspection required by §60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in §60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of §61.112b(a)(1) or §60.113b(a)(3) and list each repair made.

(b) After installing control equipment in accordance with §61.112b(a)(2) (external floating roof), the owner or operator shall meet the following requirements.

(1) Furnish the Administrator with a report that describes the control equipment and certifies that the control equipment meets the specifications of §60.112b(a)(2) and §60.113b(b)(2), (b)(3), and (b)(4). This report shall be an attachment to the notification required by §60.7(a)(3).

(2) Within 60 days of performing the seal gap measurements required by §60.113b(b)(1), furnish the Administrator with a report that contains:

(i) The date of measurement.

(ii) The raw data obtained in the measurement.

(iii) The calculations described in §60.113b (b)(2) and (b)(3).

(3) Keep a record of each gap measurement performed as required by §60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain:

(i) The date of measurement.

(ii) The raw data obtained in the measurement.

(iii) The calculations described in §60.113b (b)(2) and (b)(3).

(4) After each seal gap measurement that detects gaps exceeding the limitations specified by §60.113b(b)(4), submit a report to the Administrator within 30 days of the inspection. The report will identify the vessel and contain the

information specified in paragraph (b)(2) of this section and the date the vessel was emptied or the repairs made and date of repair.

§ 60.116b Monitoring of operations.

(a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.

(c) Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m^3 storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m^3 but less than 151 m^3 storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

(1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

(2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see §60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

(ii) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

(3) For other liquids, the vapor pressure:

(i) May be obtained from standard reference texts, or

(ii) Determined by ASTM D2879–83, 96, or 97 (incorporated by reference—see §60.17); or

(iii) Measured by an appropriate method approved by the Administrator; or

(iv) Calculated by an appropriate method approved by the Administrator.

§ 60.117b Delegation of authority.

(a) In delegating implementation and enforcement authority to a State under section 111(c) of the Act, the authorities contained in paragraph (b) of this section shall be retained by the Administrator and not transferred to a State.

(b) Authorities which will not be delegated to States: §§60.111b(f)(4), 60.114b, 60.116b(e)(3)(iii), 60.116b(e)(3)(iv), and 60.116b(f)(2)(iii).

[52 FR 11429, Apr. 8, 1987, as amended at 52 FR 22780, June 16, 1987]

OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Buckeye Terminals, L.L.C - Hartsdale Station
Source Address: 45 Division Street, Schererville, Indiana 46375
Mailing Address: P.O. Box 368, Emmaus, Pennsylvania 18049
Part 70 Permit No.: T 089-25305-00291

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:
Phone:
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

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Buckeye Terminals, L.L.C - Hartsdale Station
Source Address: 45 Division Street, Schererville, Indiana 46375
Mailing Address: P.O. Box 368, Emmaus, Pennsylvania 18049
Part 70 Permit No.: T 089-25305-00291

This form consists of 2 pages **Page 1 of 2**

☐	This is an emergency as defined in 326 IAC 2-7-1(12)
X	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
X	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

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Buckeye Terminals, L.L.C - Hartsdale Station
Source Address: 45 Division Street, Schererville, Indiana 46375
Mailing Address: P.O. Box 368, Emmaus, Pennsylvania 18049
Part 70 Permit No.: T 089-25305-00291

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

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 "No deviations occurred this reporting period".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

Source Background and Description

Source Name:	Buckeye Terminals, L.L.C. – Hartsdale Station
Source Location:	45 Division Street, Schererville, Indiana 46375
County:	Lake
SIC Code:	4613
Permit Renewal No.:	T 089-25305-00291
Permit Reviewer:	Michael A. Morrone/MES

The Office of Air Quality (OAQ) has reviewed the operating permit renewal application from Buckeye Terminals, L.L.C – Hartsdale Terminal relating to the operation of a pipeline breakout tank farm source.

History

On May 15, 2003, Buckeye Terminals, L.L.C. – Hartsdale Station submitted an application to the OAQ requesting to renew its operating permit. Buckeye Terminals, L.L.C. – Hartsdale Station was issued a Part 70 Operating Permit on February 17, 1999.

In Significant Permit Modification 089-14629-00291, issued on October 2, 2001, the descriptions for the five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, were updated to reflect that each of the external floating roof storage tanks were equipped with a geodesic dome roof. As a result, these tanks were treated as internal floating roof storage tanks for rule applicability determination.

In addition, the source provided information in its application for this Part 70 Operating Permit Renewal T 089-25305-00291, relating to VOC emissions from landing losses for each of the storage tanks in operation that had not been incorporated into their previous Title V.

This permit was previously determined to be an MSOP and was on Public Notice from August 15 through September 16, 2007. However, as the result of the case *South Coast Air Quality Mgmt. Dist. v. EPA, 472F.3d 882* (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App LEXIS 13748 (D.C. Cir., June 8, 2007), the U.S. EPA has instructed IDEM, OAQ to issue permits in accordance with its interpretation of the *South Coast* decision. Lake County was previously designated as a severe non-attainment area prior to the revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. As a result of this decision, IDEM, OAQ has decided to proceed with this approval as a Title V Renewal.

Permitted Emission Units and Pollution Control Equipment

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

(a) One (1) internal floating roof storage tank, identified as EU-1610, installed in 1957, modified in 1996, exhausting through Vent 1610, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products. Under 40 CFR 60.100b, NSPS Subpart Kb, this storage tank is an existing affected facility.

(b) One (1) fixed roof storage tank, identified as EU-1611, installed in 1957, exhausting through Vent 1611, capacity: 6,300,000 gallons of distillate and lower vapor pressure petroleum products.

(c) One (1) external floating roof storage tank, identified as EU-1612, installed in 1957, equipped with a geodesic dome roof in January 1997, exhausting through Vent 1612, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products.

(d) One (1) external floating roof storage tank, identified as EU-1613, installed in 1957, equipped with a geodesic dome roof in November 1995, exhausting through Vent 1613, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(e) One (1) fixed roof storage tank, identified as EU-1614, installed in 1957, exhausting through Vent 1614, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(f) One (1) fixed roof storage tank, identified as EU-1615, installed in 1957, exhausting through Vent 1615, capacity: 2,310,000 gallons of distillate and lower vapor pressure petroleum products.

(g) One (1) external floating roof storage tank, identified as EU-1616, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1616, capacity: 3,360,000 gallons of gasoline and lower vapor pressure petroleum products.

(h) One (1) external floating roof storage tank, identified as EU-1617, installed in 1957, equipped with a geodesic dome roof in June 1998, exhausting through Vent 1617, capacity: 3,360,000 gallons of raffinate and lower vapor pressure petroleum products.

(i) One (1) external floating roof storage tank, identified as EU-1618, installed in 1957, equipped with a geodesic dome roof in November 1997, exhausting through Vent 1618, capacity: 2,310,000 gallons of gasoline and lower vapor pressure petroleum products.

(j) One (1) fixed roof storage tank, identified as EU-1619, installed in 1957, exhausting through Vent 1619, capacity: 5,460,000 gallons of distillate and lower vapor pressure petroleum products.

(k) One (1) internal floating roof storage tank, identified as EU-1620, installed in 1957, exhausting through Vent 1620, capacity: 105,000 gallons of transmix and lower vapor pressure petroleum products.

(l) Two (2) internal floating roof above ground storage tanks, identified as EU-1621 and EU-1622, installed in 1998, each equipped with a vapor mounted primary and rim mounted secondary seal, exhausted through Vents 1621 and 1622, capacity: 5,040,000 gallons of gasoline and lower vapor pressure petroleum products, each. Under 40 CFR 60.100b, NSPS Subpart Kb, these storage tanks are existing affected facilities.

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

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

Emission Units and Pollution Control Equipment Removed From the Source

No emission units or pollution control equipment have been removed from the source.

Insignificant Activities

Activities with emissions less than the significant thresholds:

One (1) pressurized 90,000 gallon butane bullet tank, designed to have no measurable emissions.

Existing Approvals

Since the issuance of the **Part 70 Operating Permit T 089-9287-00291** on February 17, 1999, the source has constructed or has been operating under the following approvals as well:

(a) Administrative Amendment (AA) 089-10573-00291, issued on April 20, 1999,

(b) Administrative Amendment 089-14773-00291, issued on September 5, 2001,

(c) Significant Permit Modification (SPM) 089-14629-00291, issued on October 2, 2001,

(d) Reopening 089-13370-00291, issued on December 31, 2001, and

(e) Review Request 089-15897-00291, issued on April 24, 2002.

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 revised in this **Part 70 Operating Permit Renewal**:

(a) Condition D.1.3 from SPM 089-14629-00291, issued on October 2, 2001:

D.1.3 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-4]

The ten (10) volatile organic liquid storage vessels, known as EU-1611 - EU-1620, comprised of domed external floating roof tanks, fixed roof tanks and internal floating roof tanks must comply with the following requirements of 326 IAC 8-9-4.

(a) The owner or operator of each vessel with a capacity greater than or equal to thirty-nine thousand (39,000) gallons, that stores VOL with a maximum true vapor pressure greater than or equal to seventy-five hundredths (0.75) pound per square inch absolute (psia) but less than eleven and one-tenth (11.1) psia shall do the following:

(1) On or before May 1, 1996, for each vessel having a permanently affixed roof, install one (1) of the following:

(A) An internal floating roof meeting the standards in subsection (c).

(B) A closed vent system and control device meeting the standards in subsection (d).

(C) An equivalent emissions control system resulting in equivalent emissions reductions to that obtained in clause (A).

(2) For each vessel having an internal floating roof, install one (1) of the following:

(A) At the time of the next scheduled cleaning, but not later than ten (10) years after May 1, 1996, an internal floating roof meeting the standards in subsection (c).

(B) On or before May 1, 1996, a closed vent system and control device meeting the standards in subsection (d).

(C) On or before May 1, 1996, an equivalent emissions control system resulting in equivalent emissions reductions to that obtained in clause (A).

(4) For each vessel subject to this subsection, the owner or operator described in the report required in section 6(b) of this rule, install one (1) of the following:

(A) Emission control equipment.

(B) A schedule for vessel cleaning and installation of emission control equipment.

(b) On or before May 1, 1996, the owner or operator of each vessel with a capacity greater than or equal to thirty-nine thousand (39,000) gallons, that stores VOL with a maximum true vapor pressure greater than or equal to eleven and one-tenth (11.1) psia shall equip each vessel with a closed vent system with a control device meeting the standards of subsection (d).

(c) Standards applicable to each internal floating roof are as follows:

(1) The internal floating roof shall float on the liquid surface, but not necessarily in complete contact with it, inside a vessel that has a permanently affixed roof.

(2) The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the vessel is completely emptied or subsequently emptied and refilled.

(3) When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(4) Each internal floating roof shall be equipped with one (1) of the following closure devices between the wall of the vessel and the edge of the internal floating roof:

(A) A foam or liquid-filled seal mounted in contact with the liquid (liquid mounted seal).

(B) Two (2) seals mounted one (1) above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(C) A mechanical shoe seal that consists of a metal sheet held vertically against the wall of the vessel by springs or weighted levers and that is connected by braces to the floating roof. A flexible coated fabric, or envelope, spans the annular space between the metal sheet and the floating roof.

(5) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface.

(6) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid that shall be maintained in a closed position at all times (with no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(7) Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(8) Rim space vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(9) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least ninety percent (90%) of the opening.

(10) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

(d) Standards applicable to each closed vent system and control device are as follows:

(1) The closed vent system shall be designed to collect all VOC vapors and gases discharged from the vessel and operated with no detectable emission as indicated by an instrument reading of less than five hundred (500) parts per million (ppm) above background and visual inspections as determined by the methods specified in 40 CFR 60, Subpart VV, 60.485(C).

(2) The control device shall be designed and operated to reduce inlet VOC emissions by ninety-five percent (95%) or greater. If a flare is used as the control device, it shall meet the specifications described in the general control device requirements in 40 CFR 60.18, General Provisions.

Reason Revised:

The six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, have been equipped with internal floating roofs meeting the standards in subsection (c) of the condition listed above. In addition, the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, have fixed roofs, but store petroleum liquids less than 0.75 psia and are not subject to 326 IAC 8-9-4. Therefore, subsections (a), (b), and (d) will be deleted in the proposed permit, while subsection (c) will remain.

(b) Condition D.1.3 from SPM 089-14629-00291, issued on October 2, 2001:

D.1.4 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-5]

The ten (10) volatile organic liquid storage vessels, known as EU-1611 - EU-1620, comprised of domed external floating roof tanks, fixed roof tanks and internal floating roof tanks must comply with the following requirements of 326 IAC 8-9-5.

(a) The owner or operator of each vessel subject to section 4(a) of this rule shall meet the requirements of subsection (b), (c), or (d).

(b) On and after May 1, 1996, except as provided in section 4(a)(2) of this rule, the owner or operator of each vessel equipped with an internal floating roof shall meet the following requirements:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the vessel.

(2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal, if one is in service, through manholes and roof hatches on the fixed roof at least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this section cannot be repaired in forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the department in the inspection report required in section 6(c)(3) of this rule. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(3) For vessels equipped with both primary and secondary seals:

(A) visually inspect the vessel as specified in subdivision (4), at least every five (5) years; or

(B) visually inspect the vessel as specified in subdivision (2).

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal, if one is in service, gaskets, slotted membranes, and sleeve seals each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than ten percent (10%) open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subdivision exist before refilling the vessel with VOL. In no event shall the inspections required by this subsection occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in subdivisions (2) and (3)(B) and at intervals no greater than five (5) years in the case of vessels specified in subdivision (3)(A).

(5) Notify the department in writing at least thirty (30) days prior to the filling or refilling of each vessel for which an inspection is required by subdivisions (1) and (4) to afford the department the opportunity to have an observer present. If the inspection required by subdivision (4) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance of refilling the vessel, the owner or operator shall notify the department at least seven (7) days prior to the refilling of the vessel. Notification shall be made by telephone

immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the department at least seven (7) days prior to the refilling.

(c) The owner or operator of each vessel that is equipped with a closed vent system and control device described in section 4(a)(1)(B), 4(a)(2)(B), or 4(a)(3)(B) of this rule and meeting the requirements of section 4(d) of this rule, other than a flare, shall meet the following requirements:

(1) On or before January 1, 1996, submit to the department an operating plan containing the following information:

(A) Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions. This documentation shall include a description of the gas stream that enters the control device, including flow and VOC content under varying liquid level conditions (dynamic and static) and manufacturer's design specifications for the control device. If the control device or the closed vent capture system receives vapor gases, or liquid other than fuels from sources that are not subject to this rule, the efficiency demonstration shall include consideration of all vapors, gases, and liquids received by the closed vent capture system and control device. If an enclosed combustion device with a minimum residence time of seventy-five hundredths (0.75) second and a minimum temperature of eight hundred sixteen degrees Centigrade (816EC) is used to meet the ninety-five percent (95%) requirement, documentation that those conditions will exist is sufficient to meet the requirements of this subdivision.

(B) A description of the parameter or parameters to be monitored to ensure that the control device will be operated in conformance with its design and an explanation of the criteria used to monitor the parameter or parameters.

(2) Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the department in accordance with subdivision (1) unless the plan was modified by the department during the review process. In this case, the modified plan applies.

(d) The owner or operator of each source that is equipped with a closed vent system and a flare to meet the requirements in section 4(a)(4) or 4(d) of this rule shall meet the requirements specified in the general control device requirements in 40 CFR 60.18(e) and 40 CFR 60.18(f).

Reason Revised:

Only the six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, are subject to 326 IAC 8-9-5. Therefore, only subsection (b) from the condition listed above will be retained in the proposed permit

(c) All NSPS conditions which appeared in Section D.1 of SPM 089-14629-00291, issued on October 2, 2001, have been moved to Section E.1 and contain the entire text of all applicable sections of 40 CFR 60, Subpart Kb.

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this **Part 70 Operating Permit Renewal**:

Condition D.1.2 from SPM 089-14629-00291, issued on October 2, 2001:

D.1.2 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if these facilities are in compliance. If testing is required by IDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Reason not incorporated:

There is no specific testing required for any of the storage tanks. Any testing that might be required by IDEM in the future is covered by Section C – Performance Testing.

Enforcement Issue

There are no enforcement actions pending.

Vent Summary

Vent ID	Operation	Height (feet)	Dimensions (feet)	Flow Rate (acfm)	Temperature (^{0}F)
1610	EU-1610	48.0	1.5 x 2.5	n/a	Ambient
1611	EU-1611	48.0	1.5 x 2.5	n/a	Ambient
1612	EU-1612	48.0	1.5 x 2.5	n/a	Ambient
1613	EU-1613	48.0	1.5 x 2.5	n/a	Ambient
1614	EU-1614	48.0	1.5 x 2.5	n/a	Ambient
1615	EU-1615	48.0	1.5 x 2.5	n/a	Ambient
1616	EU-1616	48.0	1.5 x 2.5	n/a	Ambient
1617	EU-1617	49.0	1.5 x 2.5	n/a	Ambient
1618	EU-1618	48.0	1.5 x 2.5	n/a	Ambient
1619	EU-1619	48.0	1.5 x 2.5	n/a	Ambient
1620	EU-1620	30.0	1.5 x 2.5	n/a	Ambient
1621	EU-1621	48.0	1.5 x 2.5	n/a	Ambient
1622	EU-1622	48.0	1.5 x 2.5	n/a	Ambient

Emission Calculations

See Appendix A of this document for detailed emission calculations.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM_{10}	attainment
$PM_{2.5}$	nonattainment
SO_2	attainment
NO_X	attainment
8-hour Ozone	moderate nonattainment
CO	attainment
Lead	attainment

(a) U.S.EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for $PM_{2.5}$. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability – Entire Source section.

(b) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

(1) On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the 8-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Lake County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

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

(2) VOC and NO_X emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as

nonattainment for the 8-hour ozone standard. Therefore, VOC and NO_X emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

(c) Lake County has been classified as attainment or unclassifiable in Indiana for PM_{10}, SO_2, 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 or 326 IAC 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD or Emission Offset applicability.

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source.

Pollutant	tons/year
PM	0.00
PM_{10}	0.00
SO_2	0.00
VOC	94.5
CO	0.00
NO_X	0.00

HAPs	tons/year
Hexane	3.41
MTBE	2.67
Styrene	1.61
2,2,4 Trimethylpentane	0.717
Toluene	0.689
Ethylbenzene	0.688
Benzene	0.560
Cumene	0.515
Xylene	0.226
Phenol	0.014
Cresol	0.005
Naphthalene	0.005
Biphenyl	0.0003
Total	11.1

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is equal to or greater than twenty-five (25.0) tons per year and this source is located in Lake County. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of all attainment 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

The following table shows the actual emissions from the source. This information reflects the 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	not reported
PM_{10}	not reported
SO_2	not reported
VOC	20.0
CO	not reported
NO_X	not reported
HAP	not reported

Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

(a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.

(b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit renewal, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

	Potential to Emit (tons/year)					
Process/Emission Unit	**PM**	**PM_{10}**	**SO_2**	**VOC**	**CO**	**NO_X**
EU-1610	-	-	-	15.6	-	-
EU-1611	-	-	-	2.73	-	-
EU-1612	-	-	-	10.1	-	-
EU-1613	-	-	-	4.74	-	-
EU-1614	-	-	-	0.992	-	-
EU-1615	-	-	-	0.992	-	-
EU-1616	-	-	-	6.88	-	-
EU-1617	-	-	-	6.88	-	-
EU-1618	-	-	-	4.74	-	-
EU-1619	-	-	-	2.22	-	-
EU-1620	-	-	-	1.43	-	-
EU-1621	-	-	-	13.9	-	-
EU-1622	-	-	-	13.9	-	-
Tank Cleaning	-	-	-	9.28	-	-
Fugitive Emissions	-	-	-	0.137	-	-
Total	-	-	-	94.5	-	-
Major Source Threshold	**250**	**250**	**250**	**25.0**	**250**	**100**

(a) This existing stationary source is not major for PSD because the emissions of each attainment criteria pollutant are less than two hundred fifty (<250) tons per year, and it is not one of the twenty-eight (28) listed source categories.

(b) This existing stationary source is major for Emission Offset because the emissions of the nonattainment pollutant, VOC, are greater than twenty-five (25.0) tons per year.

(c) 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

The following federal rules are applicable to the source:

(a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to existing emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

The following table is used to identify the applicability of each of the criteria, under 40 CFR 64.1, to each existing emission unit and specified pollutant subject to CAM:

Emission Unit / Pollutant	Control Device Used	Emission Limitation (Y/N)	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	Major Source Threshold (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
EU-1610 (VOC)	N	N	15.6	15.6	25.0	N	N
EU-1611 (VOC)	N	N	2.73	2.73	25.0	N	N
EU-1612 (VOC)	N	N	10.1	10.1	25.0	N	N
EU-1613 (VOC)	N	N	4.74	4.74	25.0	N	N
EU-1614 (VOC)	N	N	0.992	0.992	25.0	N	N
EU-1615 (VOC)	N	N	0.992	0.992	25.0	N	N
EU-1616 (VOC)	N	N	6.88	6.88	25.0	N	N
EU-1617 (VOC)	N	N	6.88	6.88	25.0	N	N
EU-1618 (VOC)	N	N	4.74	4.74	25.0	N	N
EU-1619 (VOC)	N	N	2.22	2.22	25.0	N	N
EU-1620 (VOC)	N	N	1.43	1.43	25.0	N	N
EU-1621 (VOC)	N	N	13.9	13.9	25.0	N	N
EU-1622 (VOC)	N	N	13.9	13.9	25.0	N	N

Note that the unrestricted potential to emit an individual HAP is less than ten (10.0) tons per year and the unrestricted potential to emit a combination of all HAPs is less than twenty-five (25.0) tons per year. Therefore, HAPs were not specifically evaluated in the table above.

Based on this evaluation, the requirements of 40 CFR Part 64, CAM are not applicable to any of the existing units as part of this Part 70 Permit Renewal.

(b) None of the thirteen (13) storage tanks, identified as EU-1610 through EU-1622, were constructed after June 11, 1973 and prior to May 19, 1978. Therefore, the requirements of the New Source Performance Standard, 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, are not included in the permit.

(c) None of the thirteen (13) storage tanks, identified as EU-1610 through EU-1622, were constructed after May 18, 1978 and prior to July 23, 1984. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, 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.

(d) The five (5) storage tanks, identified as EU-1611, EU-1614, EU-1615, EU-1619, and EU-1620, were all constructed prior to July 23, 1984. Therefore, 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.

(e) The five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, were equipped with new geodesic dome roofs after July 23, 1984. However, the addition of each of these new roofs were not considered reconstructions pursuant to 326 IAC 1-2-65 because they did not cost greater than fifty percent (50%), each, of the cost of replacing each tank. Therefore, 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.

(f) The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, were constructed or modified after July 23, 1984, have capacities of greater than 151 m^3 (39,889.98 gallons), each, and store liquids with true vapor pressures in excess of 3.5 kilopascals (kPa). Therefore, 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 included in the permit for the three (3) storage tanks.

The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, are subject to the following portions of Subpart Kb. Non-applicable portions of the NSPS will not be included in the permit.

(1) 40 CFR 60.110b (a) and (b)

(2) 40 CFR 60.111b

(3) 40 CFR 60.112b (a)

(4) 40 CFR 60.113b (a) and (b)

(5) 40 CFR 60.114b

(6) 40 CFR 60.115b (a) and (b)

(7) 40 CFR 60.116b (a) through (c) and (e)

(8) 40 CFR 60.117b

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

(g) There are no truck loading racks in operation at this source. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals, are not included in the permit.

(h) 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.

(i) This source is not a natural gas processing plant. Therefore, the requirements of the New Source Performance Standard, 40 CFR 60, Subpart KKK, Standards of Performance for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants, are not included in the permit.

(j) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this source.

(k) This source is not a major 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.

(l) 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.

(m) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) included in the permit for this source.

State Rule Applicability - Entire Source

326 IAC 1-5-2 (Emergency Reduction Plans)

The source has submitted an Emergency Reduction Plan (ERP) on November 18, 2005. The ERP has been verified to fulfill the requirements of 326 IAC 1-5-2 (Emergency Reduction Plans).

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

The unrestricted potential to emit of the attainment criteria pollutants, PM, CO, and SO_2, are less than two hundred and 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 2-3 (Emission Offset)

The unrestricted potential to emit of the nonattainment criteria pollutant, VOC, is greater than twenty-five (25.0) tons per year. Therefore, this source, which is not one (1) of the twenty-eight (28) source categories, is a major source pursuant to 326 IAC 2-3, Emission Offset, even though the potential to emit NO_X and PM_{10} (surrogate for $PM_{2.5}$) is less than one hundred (100) tons per year.

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

The operation of the two (2) storage tanks, identified as EU-1621 and EU-1622, constructed after the July 1997 applicablity date of this rule, will emit less than ten (10.0) tons per year of a single

HAP and less than twenty-five (25.0) tons per year of a combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAPs)) are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit under 326 IAC 2-7, Part 70 program. Pursuant to this rule, the Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), starting in 2004 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c).

326 IAC 5-1 (Opacity Limitations)

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

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

326 IAC 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, in a manner that would violate 326 IAC 6-4.

326 IAC 6.8 (Fugitive Particulate Matter Limitations for Lake County)

This source is located in Lake County, but is not one (1) of the sources specifically listed in 326 IAC 6.8-2 through 326 IAC 6.8-11, nor does it have potential particulate emissions in excess of one hundred (100) tons per year or actual particulate emissions in excess of ten (10.0) tons per year. Therefore, pursuant to 326 IAC 6.8-1-1(a), the requirements of 326 IAC 6.8 (Fugitive Particulate Matter Limitations for Lake County) are not applicable to this source.

State Rule Applicability – Individual Facilities

326 IAC 8-1-6 (New facilities; general reduction requirements)

The VOC emissions from the thirteen (13) storage tanks, identified as EU-1610 through EU-1622, are less than twenty-five (25.0) tons per year, each. Therefore, pursuant to 326 IAC 8-1-6(1), the requirements of 326 IAC 8-1-6 (New facilities; general reduction requirements) are not applicable to these facilities.

326 IAC 8-4-2 (Petroleum Refineries)

This source is located in Lake County, but is not a petroleum refinery. Therefore, the requirements of 326 IAC 8-4-2 (Petroleum Refineries) are not applicable.

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

(a) The thirteen (13) storage tanks, identified as EU-1610 through EU-1622, have capacities of greater than 39,000 gallons and store volatile organic compounds with true vapor pressures in excess of 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 applicable to the thirteen (13) storage tanks.

(b) The four (4) storage tanks, identified as EU-1610 and EU-1620 through EU-1622, have internal floating roofs and the five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, are equipped with geodesic domed roofs and pursuant to SPM 089-14629-00291 will be considered to have internal floating roofs. Therefore, the nine (9) storage tanks can comply with 326 IAC 8-4-3.

(c) The four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, have external fixed roofs. Pursuant to 326 IAC 8-4-3(b)(1), no owner or operator of an external fixed roof tank shall pemit operation of the facility unless:

(1) The facility has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall unless the source has been retrofitted with equally effective alternative control which has been approved.

(2) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.

(3) All openings, except stub drains, are equipped with covers, lids, or seals such that:

(A) the cover, lid, or seal is in the closed position at all times except when in actual use;

(B) automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;

(C) rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.

(d) Pursuant to 326 IAC 8-4-3(d), the Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the thirteen (13) storage tanks, identified as EU-1610 through EU-1622. Such records shall be maintained for a period of two (2) years and shall be made available to the commissioner upon written request.

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

This source is located in Lake County, but is not a Bulk Gasoline Terminal as defined in 326 IAC 1-2-8. Therefore, the requirements of 326 IAC 8-4-4 (Bulk Gasoline Terminals) are not applicable.

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

This source is located in Lake County, but is not a Bulk Gasoline Plant as defined in 326 IAC 1-2-7. Therefore, the requirements of 326 IAC 8-4-5 (Bulk Gasoline Plants) are not applicable.

326 IAC 8-4-6 (Gasoline Dispensing Facilities)

This source is located in Lake County, but is not a Gasoline Dispensing Facility. Therefore, pursuant to 326 IAC 8-4-6(8), the requirements of 326 IAC 8-4-6 (Gasoline Dispensing Facilities) are not applicable.

326 IAC 8-4-7 (Gasoline Transports)

This source is located in Lake County, but is not a Gasoline Transport. Therefore, the requirements of 326 IAC 8-4-7 (Gasoline Transports) are not applicable.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source is located in Lake County, but has VOC emissions of less than one hundred (100) tons per year. Therefore, pursuant to 326 IAC 8-6-1(1), the requirements of 326 IAC 8-6 (Organic Solvent Emission Limitations) are not applicable to this source.

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

This source is located in Lake County with the potential to emit VOC greater than twenty-five (25.0) tons per year. However, it is subject to 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities). Therefore, pursuant to 326 IAC 8-7-2(a)(3)(C), the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties) are not applicable.

326 IAC 8-9-4 (Volatile Organic Liquid Vessels)

(a) The thirteen (13) storage tanks, identified as EU-1610 through EU-1622, storage volatile organic liquids and are located at a source in Lake County. Therefore, the requirements of 326 IAC 8-9 (Volatile Organic Liquid Vessels) could be applicable to the thirteen (13) storage tanks.

(b) The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, are subject to 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. Therefore, pursuant to 326 IAC 8-9-2(8), the requirements of 326 IAC 8-9-4 (Volatile Organic Liquid Storage Vessels) are not applicable to these facilities.

(c) The four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, have capacities of greater than 39,000 gallons, each, but store petroleum liquids with maximum true vapor pressures of less than seventy-five hundredths (0.75) psia. Therefore, pursuant to 326 IAC 8-9-4(a), the requirements of 326 IAC 8-9-4 (Volatile Organic Liquid Vessels) are not applicable to these facilities.

(d) The six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, have capacities of greater than 39,000 gallons, each, and store volatile organic liquids with a maximum true vapor pressure greater than or equal to seventy-five hundredths (0.75) pounds per square inch (psia), but less than eleven and one-tenth (11.1) psia. The five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, have external floating roofs with geodesic domed roofs and will be treated as if they had internal floating roofs. The storage tank, identified as EU-1620, is equipped with an internal floating roof. Therefore, pursuant to 326 IAC 8-9-1(a), the requirements of 326 IAC 8-9-4(c) (Volatile Organic Liquid Vessels) are applicable to

these facilities. Pursuant to 326 IAC 8-9-4(c), the following standards are applicable to each internal floating roof:

(1) The internal floating roof shall float on the liquid surface, but not necessarily in complete contact with it, inside a vessel that has a permanently affixed roof.

(2) The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the vessel is completely emptied or subsequently emptied and refilled.

(3) When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(4) Each internal floating roof shall be equipped with one (1) of the following closure devices between the wall of the vessel and the edge of the internal floating roof:

(A) A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).

(B) Two (2) seals mounted one (1) above the other so that each forms a continuous closure that completely covers the space between the wall of the vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(C) A mechanical shoe seal that consists of a metal sheet held vertically against the wall of the vessel by springs or weighted levers and that is connected by braces to the floating roof. A flexible coated fabric, or envelope, spans the annular space between the metal sheet and the floating roof.

(5) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface.

(6) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid that shall be maintained in a closed position at all times (with no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(7) Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(8) Rim space vents shall be equipped with a gasket and shall be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(9) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least ninety percent (90%) of the opening.

(10) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

326 IAC 8-9-5 (Volatile Organic Liquid Vessels)

(a) The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, are subject to 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. Therefore, pursuant to 326 IAC 8-9-2(8), the requirements of 326 IAC 8-9-5 (Volatile Organic Liquid Storage Vessels) are not applicable to these facilities.

(b) Pursuant to 326 IAC 8-9-5(a), the requirements of 326 IAC 8-9-5 (Volatile Organic Liquid Vessels), are not applicable to the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, because they store petroleum liquids with maximum true vapor pressures of less than seventy-five hundredths (0.75) psia, and are not subject to 326 IAC 8-9-4(a).

(c) Pursuant to 326 IAC 8-9-5(b), the owner or operator of one (1) storage tank, identified as EU-1620, equipped with an internal floating roof and the five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616-1618, equipped with external floating roofs with geodesic dome roofs, but which will be treated as if they had internal floating roofs, shall meet the requirements as described in the Compliance Determination and Monitoring Requirements section of this Technical Support Document.

326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels)

(a) The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, are subject to 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. Therefore, pursuant to 326 IAC 8-9-2(8), the requirements of 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels) are not applicable to these facilities.

(b) Pursuant to 326 IAC 8-9-6(c), the owner or operator of the one (1) storage tank, identified as EU-1620, equipped with an internal floating roof, the five (5) storage tanks, identified as EU-1612, EU-1613, and EU-1616 through EU-1618, shall comply with the following record keeping and reporting requirements:

(1) Keep a record of each inspection performed as required by 326 IAC 8-9-5(b)(1) through 5(b)(4). Each record shall identify the following:

(A) The vessel inspected by identification number.

(B) The date the vessel was inspected.

(C) The observed condition of each component of the control equipment, including the following:

(i) Seals.

(ii) Internal floating roof.

(iii) Fittings.

(2) If any of the conditions described in 326 IAC 8-9-5(b)(2) are detected during the required annual visual inspection, a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. Each report shall identify the following:

(A) The vessel by identification number.

(B) The nature of the defects.

(C) The date the vessel was emptied or the nature of and date the repair was made.

(3) After each inspection required by 326 IAC 8-9-5(b)(3) of this rule that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 326 IAC 8-9-5(b)(3)(B), a record shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

(A) The vessel by identification number.

(B) The reason the vessel did not meet the specifications of 326 IAC 8-904 (a)(1)(A), 4(a)(2)(A), or 5(b) and list each repair made.

(c) Pursuant to 326 IAC 8-9-6(h), the owner or operator of the four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619, which store a volatile liquid with a maximum true vapor pressure than is normally less than seventy-five hundredths (0.75) psia (jet kerosene) shall maintain a record and notify the department within thirty (30) days when the maximum true vapor pressure of the liquid stored exceeds seventy-five hundredths (0.75) psia.

Available data on the storage temperature may be used to determine the maximum true vapor pressure as follows:

(1) The maximum true vapor pressure for volatile organic liquids stored at temperatures above or below the ambient temperature shall correspond to the highest calendar-month average storage temperature. The maximum true vapor pressure for volatile organic liquids stored at the ambient temperature shall correspond to the local maximum monthly average temperature, as reported by the National Weather Service.

(2) For local crude oil or refined petroleum products, the maximum vapor pressure may be determined as follows:

(A) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 unless the department specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the samples.

(B) The maximum true vapor pressure of each type of crude oil with a Reid vapor pressure less than two (2) pounds per square inch or with physical properties that preclude determination by the recommended method

shall be determined from available data and recorded if the estimated maximum true vapor pressure is greater than five-tenths (0.5) psia.

(3) For other liquids, the maximum true vapor pressure may be determined by any of the following methods:

(A) Standard reference texts.

(B) ASTM Method D2879-92.

(C) Calculated or measured by a method approved by the department.

(d) All records required by 326 IAC 8-9-6(c), (d), (e), and (h) for the ten (10) storage tanks, identified as EU-1611 through EU-1620, shall be maintained for three (3) years, unless otherwise specified. In addition, the following records required by 326 IAC 8-9-6(b) shall be maintained for the life of the tank:

(1) The vessel identification number.

(2) The vessel dimensions.

(3) The vessel capacity.

(4) A description of the emission control equipment for each vessel described in 326 IAC 8-9-4(a) or (b), or a schedule for installation of emission control equipment on vessels described in 326 IAC 8-9-4(a) or (b), with a certification that the emission control equipment meets the applicable standards.

326 IAC 12-1 (New Source Performance Standards)

The source is subject to a 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. Therefore, the requirements of 326 IAC 12-1 are applicable because the rule incorporates by reference the provisions of 40 CFR 60.

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:

The four (4) storage tanks, identified as EU-1611, EU-1614, EU-1615, and EU-1619 have the following Compliance Determination Requirements:

Available data on the storage temperature may be used to determine the maximum true vapor pressure as follows:

(1) The maximum true vapor pressure for volatile organic liquids stored at temperatures above or below the ambient temperature shall correspond to the highest calendar-month average storage temperature. The maximum true vapor pressure for volatile organic liquids stored at the ambient temperature shall correspond to the local maximum monthly average temperature, as reported by the National Weather Service.

(2) For local crude oil or refined petroleum products, the maximum vapor pressure may be determined as follows:

(A) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 unless the department specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the samples.

(B) The maximum true vapor pressure of each type of crude oil with a Reid vapor pressure less than two (2) pounds per square inch or with physical properties that preclude determination by the recommended method shall be determined from available data and recorded if the estimated maximum true vapor pressure is greater than five-tenths (0.5) psia.

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

(a) The three (3) storage tanks, identified as EU-1610, EU-1621, and EU-1622, have the following Compliance Monitoring Requirement:

The source shall maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period.

This Compliance Monitoring Requirement is necessary to comply with the requirements of 40 CFR 60, Subpart Kb.

(b) The six (6) storage tanks, identified as EU-1612, EU-1613, EU-1616 through EU-1618, and EU-1620, have the following Compliance Monitoring Requirements:

(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with volatile organic liquid. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the vessel.

(2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal, if one is in service, through manholes and roof hatches on the fixed roof at

least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this section cannot be repaired in forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the department in the inspection report required in 326 IAC 8-9-6(c)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(3) For vessels equipped with both primary and secondary seals:

(A) visually inspect the vessel as specified in subdivision (4), at least every five (5) years; or

(B) visually inspect the vessel as specified in subdivision (2).

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal, if one is in service, gaskets, slotted membranes, and sleeve seals each time the vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than ten percent (10%) open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this subdivision exist before refilling the vessel with VOL. In no event shall the inspections required by this subsection occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in subdivisions (2) and (3)(B) and at intervals no greater than five (5) years in the case of vessels specified in subdivision (3)(A).

(5) Notify the department in writing at least thirty (30) days prior to the filling or refilling of each vessel for which an inspection is required by subdivisions (1) and (4) to afford the department the opportunity to have an observer present. If the inspection required by subdivision (4) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance of refilling the vessel, the owner or operator shall notify the department at least seven (7) days prior to the refilling of the vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification, including the written documentation, may be made in writing and sent by express mail so that it is received by the department at least seven (7) days prior to the refilling.

These Compliance Monitoring Requirements are necessary to comply with the requirements of 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels).

(c) The thirteen (13) storage tanks, identified as EU-1610 through EU-1622 have the following Compliance Monitoring Requirement:

The Permittee shall maintain records of the types of volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the thirteen (13) storage tanks, identified as EU-1610 through EU-1622.

Such records shall be maintained for a period of two (2) years and shall be made available to the commissioner upon written request.

Recommendation

The staff recommends to the Commissioner that the Part 70 Operating Permit 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 May 15, 2003. Additional information was received on June 6, 2007.

Conclusion

The operation of this pipeline breakout tank farm source shall be subject to the conditions of the attached Part 70 Operating Permit Renewal No. T 089-25305-00291.

Appendix A: Emissions Calculations
Process Fugitive Emissions

Company Name: Buckeye Terminals, L.L.C. - Hartsdale Station
Address City IN Zip: 45 Division Street, Schererville, Indiana 46375
Part 70: T 089-25305-00291
Reviewer: Michael A. Morrone/MES
Date: September 19, 2007

Component Type	Service	Emission Factor (lbs/hr-component)	Quantity	VOC Emissions (lbs/hr)	VOC Emissions (tons/yr)
Flange/screwed Connections	Gasoline	0.00004	410	0.017	0.075
Valves	Gasoline	0.00001	170	0.002	0.010
Pump seals	Gasoline	0.0001	13	0.001	0.004
Open-Ended Lines	Gasoline	0.00012	20	0.002	0.048
			Total	0.023	0.137

Component Type	Service	Weight % Benzene	Weight % Toluene	Weight % Xylene	Weight % Ethylbenzene	Weight % Hexane	Weight % 2,2,4 Trimethylpentane	Weight % Biphenyl	Weight % Cresol	Weight % Cumene	Weight % MTBE	Weight % Naphthalene	Weight % Phenol	Weight % Styrene	
Flange/screwed Connections	Gasoline	0.625%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%	
Valves	Gasoline	0.625%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%	
Pump seals	Gasoline	0.625%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%	
Open-Ended Lines	Gasoline	0.625%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%	
		Benzene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Ethylbenzene Emissions (tons/yr)	Hexane Emissions (tons/yr)	2,2,4 Trimethylpentane Emissions (tons/yr)	Biphenyl Emissions (tons/yr)	Cresol Emissions (tons/yr)	Cumene Emissions (tons/yr)	MTBE Emissions (tons/yr)	Naphthalene Emissions (tons/yr)	Phenol Emissions (tons/yr)	Styrene Emissions (tons/yr)	Total HAPs (tons/yr)
Flange/screwed connections	Gasoline	0.0005	0.0006	0.0002	0.00005	0.003	0.0007	0.0000002	0.0000005	0.00001	0.003	0.0000004	0.0000001	0.0001	0.008
Valves	Gasoline	0.0001	0.0001	0.00002	0.00001	0.0004	0.0001	0.00000002	0.0000001	0.000002	0.0004	0.0000001	0.00000001	0.00001	0.001
Pump seals	Gasoline	0.00002	0.00003	0.00001	0.000002	0.0002	0.00004	0.00000001	0.00000002	0.000001	0.0001	0.00000002	0.000000004	0.000003	0.0004
Open-Ended Lines	Gasoline	0.0003	0.0004	0.0001	0.00003	0.002	0.0005	0.0000001	0.0000003	0.00001	0.002	0.0000003	0.0000001	0.00004	0.005
	TOTALS	0.001	0.001	0.0003	0.0001	0.006	0.001	0.0000003	0.000001	0.00002	0.005	0.000001	0.0000002	0.0001	0.015

METHODOLOGY

All components were conservatively assumed to be in gasoline service, even though there are some connections which may process distilliates other than gasoline.
Emission Factors from AP-42, Chapter 5- Related Emission Factor Documents - Protocol for Equipment Leak Emission Estimates - Tables 2-3 and 2-4.
VOC emissions (lbs/hr) = Emission Factor X Quantity
VOC Emissions (tons/yr) = VOC Emissions (lbs/hr) X (8760 hrs/yr/2000 lbs/ton)
HAP Emissions (tons/yr) = VOC Emissions (tons/yr) X Weight % HAP

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

Company Name: Buckeye Terminals, L.L.C. - Hartsdale Station
Address City IN Zip: 45 Division Street, Schererville, Indiana 46375
Part 70: T 089-25305-00291
Reviewer: Michael A. Morrone/MES
Date: September 19, 2007

Tank Number	Product Stored	Losses (Tons per Year)							Non roof landing Losses	Roof Landing Losses*	Total Potential to Emit VOC
		Standing	Breathing	Working	Withdrawal	Rim Seal	Deck Fitting	Deck Seam	(tons/yr)	(tons/yr)	(tons/yr)
1610	Gasoline (RVP 15)	2.70	0.00	0.00	0.056	0.469	1.43	0.801	2.75	9.31	15.6
1610	Gasoline (RVP 9)	2.19	0.00	0.00	0.056	0.381	1.16	0.649	2.24		
1610	Gasoline (RVP 13)	1.25	0.00	0.00	0.023	0.218	0.663	0.372	1.28		
1611	Jet kerosene	0.00	0.47	2.25	0.00	0.0	0.00	0.00	2.73	0.00	2.73
1612	Gasoline (RVP 15)	0.269	0.00	0.00	0.053	0.128	0.141	0.00	0.323	9.31	10.1
1612	Gasoline (RVP 9)	0.218	0.00	0.00	0.053	0.104	0.115	0.00	0.272		
1612	Gasoline (RVP 13)	0.125	0.00	0.00	0.021	0.059	0.066	0.00	0.146		
1613	Gasoline (RVP 15)	0.227	0.00	0.00	0.036	0.086	0.141	0.00	0.264	4.14	4.74
1613	Gasoline (RVP 9)	0.184	0.00	0.00	0.036	0.070	0.115	0.00	0.221		
1613	Gasoline (RVP 13)	0.106	0.00	0.00	0.015	0.040	0.066	0.00	0.120		
1614	Jet kerosene	0.00	0.166	0.827	0.00	0.00	0.00	0.00	0.992	0.00	0.992
1615	Jet kerosene	0.00	0.166	0.827	0.00	0.00	0.00	0.00	0.992	0.00	0.992
1616	Gasoline (RVP 15)	0.246	0.00	0.00	0.043	0.105	0.141	0.000	0.290	6.22	6.88
1616	Gasoline (RVP 9)	0.200	0.00	0.00	0.043	0.085	0.115	0.00	0.243		
1616	Gasoline (RVP 13)	0.115	0.00	0.00	0.017	0.049	0.066	0.00	0.132		
1617	Gasoline (RVP 15)	0.246	0.00	0.00	0.043	0.105	0.141	0.00	0.290	6.22	6.88
1617	Gasoline (RVP 9)	0.200	0.00	0.00	0.043	0.085	0.115	0.00	0.243		
1617	Gasoline (RVP 13)	0.115	0.00	0.00	0.017	0.049	0.066	0.00	0.132		
1618	Gasoline (RVP 15)	0.227	0.00	0.00	0.036	0.086	0.141	0.00	0.264	4.14	4.74
1618	Gasoline (RVP 9)	0.184	0.00	0.00	0.036	0.070	0.115	0.00	0.221		
1618	Gasoline (RVP 13)	0.106	0.00	0.00	0.015	0.040	0.066	0.00	0.120		
1619	Jet kerosene	0.00	0.418	1.80	0.000	0.00	0.00	0.00	2.22	0.00	2.22
1620	Gasoline (RVP 15)	0.523	0.00	0.00	0.006	0.231	0.264	0.028	0.529	0.220	1.43
1620	Gasoline (RVP 9)	0.424	0.00	0.00	0.006	0.187	0.214	0.023	0.430		
1620	Gasoline (RVP 13)	0.243	0.00	0.00	0.002	0.107	0.123	0.013	0.246		
1621	Gasoline (RVP 15)	1.96	0.00	0.00	0.056	0.128	1.03	0.801	2.01	9.31	13.9
1621	Gasoline (RVP 9)	1.59	0.00	0.00	0.056	0.104	0.835	0.649	1.64		
1621	Gasoline (RVP 13)	0.910	0.00	0.00	0.023	0.059	0.478	0.372	0.932		
1622	Gasoline (RVP 15)	1.96	0.00	0.00	0.056	0.128	1.030	0.801	2.01	9.31	13.9
1622	Gasoline (RVP 9)	1.59	0.00	0.00	0.056	0.104	0.835	0.649	1.64		
1622	Gasoline (RVP 13)	0.910	0.00	0.00	0.023	0.059	0.478	0.372	0.932		
	TOTALS	**19.0**	**1.22**	**5.71**	**0.930**	**3.34**	**10.1**	**5.53**	**26.9**	**58.2**	**85.0**

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.
*Roof landing losses based on applicant calculations using the methodology contained in the American Petroleum Institute's "Determining Product Evaporation Losses from Tank Turnovers" Final Draft Report (1997).

Appendix A: Emissions Calculations
Tank HAP Emissions - Potential to Emit

Company Name: Buckeye Terminals, L.L.C. - Hartsdale Station
Address City IN Zip: 45 Division Street, Schererville, Indiana 46375
Part 70: T 089-25305-00291
Reviewer: Michael A. Morrone/MES
Date: September 19, 2007

Tank Number	Product Stored	VOC Emissions (tons/yr)	Weight % Benzene	Weight % Toluene	Weight % Xylene	Weight % Ethylbenzene	Weight % Hexane	Weight % 2,2,4 Trimethylpentane	Weight % Biphyenl	Weight % Cresol	Weight % Cumene	Weight % MTBE	Weight % Naphthalene	Weight % Phenol	Weight % Styrene
1610	Gasoline (RVP 15)	15.6	0.624%	0.84%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1611	Jet kerosene	2.73	0.200%	0.40%	0.800%	0.200%	0.100%	0.284%	0.0002%	0.004%	0.100%	0.00%	0.089%	0.013%	0.079%
1612	Gasoline (RVP 15)	10.1	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1613	Gasoline (RVP 15)	4.74	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1614	Jet kerosene	0.992	0.200%	0.400%	0.800%	0.200%	0.100%	0.284%	0.0002%	0.004%	0.100%	0.00%	0.089%	0.013%	0.079%
1615	Jet kerosene	0.992	0.200%	0.400%	0.800%	0.200%	0.100%	0.284%	0.0002%	0.004%	0.100%	0.00%	0.089%	0.013%	0.079%
1616	Gasoline (RVP 15)	6.88	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1617	Gasoline (RVP 15)	6.88	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1618	Gasoline (RVP 15)	4.74	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1619	Jet kerosene	2.22	0.200%	0.400%	0.800%	0.200%	0.100%	0.284%	0.0002%	0.004%	0.100%	0.00%	0.089%	0.013%	0.079%
1620	Gasoline (RVP 15)	1.43	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1621	Gasoline (RVP 15)	13.9	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%
1622	Gasoline (RVP 15)	13.9	0.624%	0.842%	0.235%	0.063%	4.43%	0.953%	0.0002%	0.001%	0.016%	3.62%	0.001%	0.0001%	0.088%

Tank Number	Product Stored	VOC Emissions (tons/yr)	Benzene Emissions (tons/yr)	Toluene Emissions (tons/yr)	Xylene Emissions (tons/yr)	Ethylbenzene Emissions (tons/yr)	Hexane Emissions (tons/yr)	2,2,4 Trimethylpentane Emissions (tons/yr)	Biphenyl Emissions (tons/yr)	Cresol Emissions (tons/yr)	Cumene Emissions (tons/yr)	MTBE Emissions (tons/yr)	Naphthalene Emissions (tons/yr)	Phenol Emissions (tons/yr)	Styrene Emissions (tons/yr)	Total HAPs Emissions (tons/yr)
1610	Gasoline (RVP 15)	15.6	0.097	0.131	0.037	0.010	0.690	0.149	0.00003	0.0001	0.002	0.564	0.0001	0.00002	0.014	1.69
1611	Jet kerosene	2.73	0.005	0.011	0.022	0.005	0.003	0.008	0.00001	0.0001	0.003	0.00	0.002	0.0003	0.002	0.062
1612	Gasoline (RVP 15)	10.1	0.063	0.085	0.024	0.006	0.445	0.096	0.00002	0.0001	0.002	0.364	0.0001	0.00001	0.009	1.09
1613	Gasoline (RVP 15)	4.74	0.030	0.040	0.011	0.003	0.210	0.045	0.00001	0.00003	0.0007	0.172	0.00003	0.00001	0.004	0.516
1614	Jet kerosene	0.992	0.002	0.004	0.008	0.002	0.001	0.003	0.000002	0.00004	0.001	0.00	0.001	0.0001	0.001	0.023
1615	Jet kerosene	0.992	0.002	0.004	0.008	0.002	0.001	0.003	0.000002	0.00004	0.001	0.00	0.001	0.0001	0.001	0.023
1616	Gasoline (RVP 15)	6.88	0.043	0.058	0.016	0.004	0.305	0.066	0.00002	0.00004	0.001	0.249	0.00004	0.00001	0.006	0.748
1617	Gasoline (RVP 15)	6.88	0.043	0.058	0.016	0.004	0.305	0.066	0.00002	0.00004	0.001	0.249	0.00004	0.00001	0.006	0.748
1618	Gasoline (RVP 15)	4.74	0.030	0.040	0.011	0.003	0.210	0.045	0.000010	0.00003	0.001	0.172	0.00003	0.00001	0.004	0.516
1619	Jet kerosene	2.22	0.004	0.009	0.018	0.004	0.002	0.006	0.000005	0.0001	0.002	0.00	0.002	0.0003	0.002	0.050
1620	Gasoline (RVP 15)	1.43	0.009	0.012	0.003	0.001	0.063	0.014	0.000003	0.00001	0.0002	0.052	0.00001	0.000002	0.001	0.155
1621	Gasoline (RVP 15)	13.9	0.087	0.117	0.033	0.009	0.615	0.132	0.00003	0.0001	0.002	0.503	0.0001	0.00002	0.012	1.51
1622	Gasoline (RVP 15)	13.9	0.087	0.117	0.033	0.009	0.615	0.132	0.00003	0.0001	0.002	0.503	0.0001	0.00002	0.012	1.511
	TOTALS	**85.0**	**0.501**	**0.686**	**0.239**	**0.063**	**3.47**	**0.764**	**0.0002**	**0.001**	**0.019**	**2.83**	**0.007**	**0.001**	**0.074**	**8.65**

Appendix A: Emissions Calculations
Tank HAP Emissions - Potential to Emit

Company Name:	**Buckeye Terminals, L.L.C. - Hartsdale Station**
Address City IN Zip:	**45 Division Street, Schererville, Indiana 46375**
Part 70:	**T 089-25305-00291**
Reviewer:	**Michael A. Morrone/MES**
Date:	**September 19, 2007**

DETERMINING PRODUCT EVAPORATION LOSSES FROM TANK TURNOVERS

FACILITY INFORMATION					
facility number, (dimensionless)	5	select facility number from table 4 on met data sheet			
facility name, (dimensionless)	East Chicago, IN				
TANK AND OPERATIONAL PARAMETERS					
tank number	cleaning				
diameter, *D* (ft)	134				
number of days standing idle, *nd* (days)	6				
tank type:					
cone bottom (sloped down to center)	1	typical for pipeline facilities			
flat bottom (including those sloped up to sides)		typical for marketing terminals			
bottom slope, *s* (in/ft)	0.25	0.25 in/ft for cone bottom, 0.0 in/ft for flat bottom			
tank color	6	(1=spec alum, 2=dif alum, 3=lt gray, 4=med gray, 5=red, 6=white)			
paint condition	1	(1=good, 2=poor)			
elevation of fill/empty line, *he* (in)	NA	not applicable for cone bottom, 12 in. for flat bottom			
height of floating roof deck, *hd* (ft)	50	if not known use 3 feet			
height of stock liquid, *hl* (ft)	0.0	zero if empty, guage reading if not empty			
average depth of sludge & puddles, *hs* (in)	0.5				
effective stock liquid height, *hle* (ft)	0.042				
height of vapor space, *hv* (ft)	50.4				
volume of stock liquid, *Vl* (ft3)	587.609				
total volume below floating roof deck, *Vt* (ft3)	711692.10				
volume of vapor space, *Vv* (ft3)	711104.49				
solar absorptance, a (dimensionless)	0.17				
METEOROLOGICAL CONDITIONS					
daily maximum ambient temperature, *Tax* (oF)	58.7				
daily minimum ambient temperature, *Tan* (oF)	39.7				
daily total solar insolation, *I* (Btu/ft2 day)	1215				
average ambient temperature, *Ta* (oR)	508.9				
daily temperature range, d*Ta* (oR/day)	19.0				
stock liquid surface temperature, *Tla* (oR)	510.1				
stock liquid surface temperature, *Tla* (oF)	50.4				
vapor space temperature range, d*Tv* (oR/day)	19.5				
STOCK PROPERTIES					
stock number	1	select stock number from table 5 on stock data sheet			
stock name	Motor Gasoline				
stock Reid vapor pressure, *RVP*	13.8	A= 11.6254	B= 4999.48875		
stock ASTM-D86 distillation slope at 10 vol% e	3.0				
stock true vapor pressure, *P* (psia)	6.196	5.8	This second value is from stock data table. It is for comparison only.		
stock vapor molecular weight, *Mv* (lb/lb-mole)	62				
density of condensed vapor stock, *Wv* (lb/ft3)	0.07018				
vapor space expansion factor, *KE* (day-1)	0.1905				
SATURATION FACTORS					
standing idle saturation factor, *Ksb* (dimensionl	0.056953581				
refilling saturation factor, *Ksf* (dimensionless)	0.02847679	Cone down bottom, empty tank			
		All others, *Ksf=Ksb*			
ROOF LANDING EVAPORATION LOSSES					
standing idle losses, Ls (lb)	3249.29				
filling losses, Lf (lb)	1386.62				
total losses, Lt (lb)	4635.91				
cleanings per year, RL (no./yr)	3				
total losses per year, Lta (lb/yr)	13907.72				
total losses per year, Lton (ton/yr)	6.95	(for gasoline tanks…for distilliate tanks see note 2 below)			
	2.33	(for distilliate tanks)			
Total	**9.28**				

METHODOLOGY

1. VOC Emissions for gasoline tanks calculated from American Petroleum Institute's *"Determining Product Evaporation Losses from Tank Turnovers" Final Draft Report* (1997) using three roof-landing/yr lasting 6 days each. (This is the maximum amount of product that can evaporate within 6 days - all tanks are cleaned within 6 days of being opened). Assume the floating-roof height is 50 ft high to simulate venting.
2. VOC Emissions for jet fuel estimated assuming 26 bbls remain in tank before degassing/cleaning. Assume 20% evaporation and density of 7.1 lbs/gallon. Assume 3 distillate tank cleaning events per year.
3. Tank Cleaning emissions assume that 6 tanks are degassed/cleaned per year (3 gasoline (6.95 tons/yr) and 3 distillate tanks (2.33 tons/yr)).

Appendix A: Emissions Calculations
Summary

Company Name: Buckeye Terminals, L.L.C. - Hartsdale Station
Address City IN Zip: 45 Division Street, Schererville, Indiana 46375
Part 70: T 089-25305-00291
Reviewer: Michael A. Morrone/MES
Date: September 19, 2007

Summary of Emissions

Significant Emission Units	PM	PM-10	SO2	NOx	VOC	CO	Benzene	Toluene	Xylene	Ethylbenzene	Hexane	2,2,4 Trimethylpentane	Biphenyl	Cresol	Cumene	MTBE	Naphthalene	Phenol	Styrene	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)
Tank Number																				
1610	0.00	0.00	0.00	0.00	15.6	0.00	0.097	0.131	0.037	0.010	0.690	0.149	0.00003	0.0001	0.002	0.564	0.0001	0.00002	0.014	1.69
1611	0.00	0.00	0.00	0.00	2.73	0.00	0.005	0.011	0.022	0.005	0.003	0.008	0.00001	0.0001	0.003	0.00	0.002	0.0003	0.002	0.062
1612	0.00	0.00	0.00	0.00	10.1	0.00	0.063	0.085	0.024	0.006	0.445	0.096	0.00002	0.0001	0.002	0.364	0.0001	0.00001	0.009	1.09
1613	0.00	0.00	0.00	0.00	4.74	0.00	0.030	0.040	0.011	0.003	0.210	0.045	0.00001	0.00003	0.001	0.172	0.00003	0.00001	0.004	0.516
1614	0.00	0.00	0.00	0.00	0.992	0.00	0.002	0.008	0.002	0.001	0.003	0.000	0.00004	0.001	0.00	0.001	0.0001	0.001	0.023	0.041
1615	0.00	0.00	0.00	0.00	0.992	0.00	0.002	0.008	0.002	0.001	0.003	0.000	0.00004	0.001	0.00	0.001	0.0001	0.001	0.023	0.041
1616	0.00	0.00	0.00	0.00	6.88	0.00	0.043	0.016	0.004	0.305	0.066	0.000	0.00004	0.001	0.249	0.00	0.00001	0.006	0.748	1.44
1617	0.00	0.00	0.00	0.00	6.88	0.00	0.043	0.016	0.004	0.305	0.066	0.000	0.00004	0.001	0.249	0.00	0.00001	0.006	0.748	1.44
1618	0.00	0.00	0.00	0.00	4.74	0.00	0.030	0.040	0.011	0.003	0.210	0.045	0.00001	0.00003	0.0007	0.172	0.00003	0.00001	0.004	0.516
1619	0.00	0.00	0.00	0.00	2.22	0.00	0.004	0.009	0.018	0.004	0.002	0.006	0.000005	0.0001	0.002	0.00	0.002	0.0003	0.002	0.050
1620	0.00	0.00	0.00	0.00	1.43	0.00	0.009	0.012	0.003	0.001	0.063	0.014	0.000003	0.00001	0.0002	0.052	0.00001	0.000002	0.001	0.155
1621	0.00	0.00	0.00	0.00	13.9	0.00	0.087	0.117	0.033	0.009	0.615	0.132	0.00003	0.0001	0.002	0.503	0.0001	0.00002	0.012	1.51
1622	0.00	0.00	0.00	0.00	13.9	0.00	0.087	0.117	0.033	0.009	0.615	0.132	0.00003	0.0001	0.002	0.503	0.0001	0.00002	0.012	1.51
Associated Emissions																				
Tank Cleaning*	0.00	0.00	0.00	0.00	9.28	0.00	0.058	0.078	0.022	0.006	0.411	0.088	0.00002	0.0001	0.001	0.336	0.0001	0.00001	0.008	1.01
Fugitive Emissions	0.00	0.00	0.00	0.00	0.137	0.00	0.001	0.001	0.0003	0.0001	0.006	0.001	0.0000003	0.000001	0.00002	0.005	0.000001	0.0000002	0.0001	0.015
Total	**0.00**	**0.00**	**0.00**	**0.00**	**94.5**	**0.00**	**0.560**	**0.689**	**0.226**	**0.668**	**3.41**	**0.717**	**0.0003**	**0.005**	**0.515**	**2.67**	**0.005**	**0.014**	**1.61**	**11.1**

***VOC emissions from tank cleaning were provided by the applicant assuming that 3 gasoline and 3 distilliate tanks are cleaned per year. Please see page 3 for detailed calculations.**