



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

April 26, 2004

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
www.in.gov/idem

TO: Interested Parties / Applicant

RE: Support Terminal Services, Inc / 063-17196-00027

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures  
FNPER.dot 9/16/03



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

**Support Terminal Services dba ST Services  
3350 North Raceway Road  
3218 North Raceway Road  
Indianapolis, Indiana 46234**

(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 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F063-17196-00027	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: April 26, 2004  Expiration Date: April 26, 2009

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## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary gasoline terminal.

Authorized Individual:	Terminal Manager
Source Address:	3350 North Raceway Road, Indianapolis, Indiana, 46234 3218 North Raceway Road, Indianapolis, Indiana, 46234
Mailing Address:	P.O. Box 34132, Indianapolis, Indiana, 46234-0132
General Source Phone:	(317) 299-2675
SIC Code:	4226
County Location:	Hendricks
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

- (a) One (1) gasoline storage tank, constructed in 1953, identified as Tank 201, equipped with an internal floating roof, with a maximum capacity of 84,000 gallons.
- (b) One (1) gasoline storage tank, constructed in 1953 and modified in 2003, identified as 1001, equipped with an internal floating roof, with a maximum capacity of 420,000 gallons, and exhausting to vent 1001.
- (c) Five (5) gasoline storage tanks, constructed in 1953, identified as 2001, 2002, 2003, 2004 and 2006, all equipped with internal floating roofs, with maximum capacities of 840,000 gallons each, and exhausting to vents 2001, 2002, 2003, 2004 and 2006, respectively.
- (d) One (1) gasoline storage tank, constructed in 1953, identified as 2401, equipped with an internal floating roof, with a maximum capacity of 1,008,000 gallons, and exhausting to vent 2401.
- (e) Three (3) gasoline storage tanks, constructed in 1953, identified as 4001, 4002 and 4003, all equipped with an internal floating roofs, with maximum capacities of 1,680,000 gallons each, and exhausting to vents 4001, 4002 and 4003, respectively.
- (f) Two (1) kerosene storage tanks, constructed in 1953, identified as 1002 and 1004, each equipped with a vertical fixed roof, with maximum capacities of 420,000 gallons each, and exhausting to vents 1002 and 1004, respectively.
- (g) One (1) kerosene storage tank, constructed in 1953, identified as 2005, equipped with a vertical fixed roof, with a maximum capacity of 840,000 gallons, and exhausting to vent 2005.

- (h) Three (3) diesel storage tanks, constructed in 1953, identified as 1003, 1005 and 1006, all equipped with vertical fixed roofs, with maximum capacities of 420,000 gallons each, and exhausting to vents 1003, 1005 and 1006, respectively.
- (i) One (1) diesel storage tank, constructed in 1953, identified as 3001, equipped with a vertical fixed roof, with a maximum capacity of 1,260,000 gallons, and exhausting to vent 3001.
- (j) One (1) diesel storage tank, constructed in 1953, identified as 5501, equipped with a vertical fixed roof, with a maximum capacity of 2,310,000 gallons, and exhausting to vent 5501.
- (k) One (1) truck loading rack, constructed in 1953, identified as NA01, with a maximum capacity of 51,000 gallons per hour and 446,700,000 gallons per year, with VOC emissions controlled by a flare, and exhausting to vent NA01.

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

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

- (a) Four (4) ethanol storage tanks, constructed after 1984, identified as Tanks 1, 2, 3 and 4, each equipped with fixed roofs, with maximum capacities of 15,000 gallons each.
- (b) One (1) additive storage tank, constructed after 1984, identified as Tank A-1, equipped with a fixed roof, with a maximum capacity of 7,400 gallons.
- (c) One (1) distillate loading rack, constructed in 1953, identified as NA02, handling only No. 1 fuel oil (kerosene) and No. 2 fuel oil (diesel fuel), with a maximum capacity of 60,800 gallons per hour and 532,608,000 gallons per year, with no control devices.

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

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

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

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

## **SECTION B GENERAL CONDITIONS**

### **B.1 Permit No Defense [IC 13]**

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

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

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

### **B.3 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5]**

This permit 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.

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

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

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

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

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

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

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

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

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

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

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

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

B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

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

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

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

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

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
  - (c) 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 PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
  - (d) 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.13 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;  
  
Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967
- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management

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

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

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

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

B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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 independently 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination  
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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

**B.16 Permit Renewal [326 IAC 2-8-3(h)]**

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source’s failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ 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 needed to process the application.

**B.17 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]**

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- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

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

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.18 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

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

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

and

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

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

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

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

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

B.19 Permit Revision Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-30-3-1] [IC13-17-3-2]

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

B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

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

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

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

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

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320 (ask for OAQ, I/M & Billing Section), to determine the appropriate permit fee.

## SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

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

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

- (a) Pursuant to 326 IAC 2-8:
  - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.
  - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

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

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

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

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

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

All required notifications shall be submitted to:

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

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

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector be accredited is not federally enforceable.

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

#### **C.9 Performance Testing [326 IAC 3-6]**

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ 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.10 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

#### **C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

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

#### **C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

#### **C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]**

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

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

#### **C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]**

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

C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

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- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
  - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be 10 days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

- (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-8-12 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

**C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]  
[326 IAC 2-8-5]**

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

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

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

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

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- (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 unless otherwise specified. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a

request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

**Stratospheric Ozone Protection**

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

## SECTION D.1

## FACILITY OPERATION CONDITIONS

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

- (a) One (1) gasoline storage tank, constructed in 1953, identified as Tank 201, equipped with an internal floating roof, with a maximum capacity of 84,000 gallons.
- (b) One (1) gasoline storage tank, constructed in 1953 and modified in 2003, identified as 1001, equipped with an internal floating roof, with a maximum capacity of 420,000 gallons, and exhausting to vent 1001.
- (c) Five (5) gasoline storage tanks, constructed in 1953, identified as 2001, 2002, 2003, 2004 and 2006, all equipped with internal floating roofs, with maximum capacities of 840,000 gallons each, and exhausting to vents 2001, 2002, 2003, 2004 and 2006, respectively.
- (d) One (1) gasoline storage tank, constructed in 1953, identified as 2401, equipped with an internal floating roof, with a maximum capacity of 1,008,000 gallons, and exhausting to vent 2401.
- (e) Three (3) gasoline storage tanks, constructed in 1953, identified as 4001, 4002 and 4003, all equipped with an internal floating roofs, with maximum capacities of 1,680,000 gallons each, and exhausting to vents 4001, 4002 and 4003, respectively.
- (f) Two (1) kerosene storage tanks, constructed in 1953, identified as 1002 and 1004, each equipped with a vertical fixed roof, with maximum capacities of 420,000 gallons each, and exhausting to vents 1002 and 1004, respectively.
- (g) One (1) kerosene storage tank, constructed in 1953, identified as 2005, equipped with a vertical fixed roof, with a maximum capacity of 840,000 gallons, and exhausting to vent 2005.
- (h) Three (3) diesel storage tanks, constructed in 1953, identified as 1003, 1005 and 1006, all equipped with vertical fixed roofs, with maximum capacities of 420,000 gallons each, and exhausting to vents 1003, 1005 and 1006, respectively.
- (i) One (1) diesel storage tank, constructed in 1953, identified as 3001, equipped with a vertical fixed roof, with a maximum capacity of 1,260,000 gallons, and exhausting to vent 3001.
- (j) One (1) diesel storage tank, constructed in 1953, identified as 5501, equipped with a vertical fixed roof, with a maximum capacity of 2,310,000 gallons, and exhausting to vent 5501.
- (k) One (1) truck loading rack, constructed in 1953, identified as NA01, with a maximum capacity of 51,000 gallons per hour and 446,700,000 gallons per year, with VOC emissions controlled by a flare, and exhausting to vent NA01.

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

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

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

The Permittee shall comply with the requirements for internal floating roofs equipped with closure seals for the eight (8) gasoline storage tanks identified as 1001, 2001, 2002, 2003, 2004, 4001, 4002 and 4003 having fixed external roofs.

### **D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-4-4][326 IAC 8-4-7]**

- (a) The Permittee shall not permit the loading of gasoline into any transport, excluding railroad tank cars or barges, unless:
- (1) the bulk gasoline terminal is equipped with a vapor control system, in good working order, in operation and consisting of a vapor collection system which directs all vapors to a fuel gas system or incinerator;
  - (2) displaced vapors and gases are vented only to the vapor control system;
  - (3) a means is provided to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected;
  - (4) all loading and vapor lines are equipped with fittings which make vapor tight connections and which will be closed upon disconnection; and
  - (5) the vapor recovery unit is attached to all transports during transfer operations.
- (b) If employees of the Permittee of the bulk gasoline terminal are not present during loading, it shall be the responsibility of the owner of the transport to make certain the vapor control system is attached to the transport. The Permittee shall take all reasonable steps to insure that owners of transports loading at the terminal during unsupervised times comply with this section.

### **D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-4-9]**

- (a) Pursuant to 326 IAC 8-4-9, the Permittee shall not allow a gasoline transport that is subject to 326 IAC 8-4-7 and that has a capacity of two thousand (2,000) gallons or more to be filled or emptied unless the gasoline transport completes the following:
- (1) Annual leak detection testing before the end of the twelfth calendar month following the previous year's test, according to test procedures contained in 40 CFR 63.425(e), as follows:
    - (A) Conduct the pressure and vacuum tests for the transport's cargo tank using a time period of five (5) minutes. The initial pressure for the pressure test shall be four hundred sixty (460) millimeters H<sub>2</sub>O (eighteen (18) inches H<sub>2</sub>O) gauge. The initial vacuum for the vacuum test shall be one hundred fifty (150) millimeters H<sub>2</sub>O (six (6) inches H<sub>2</sub>O) gauge. The maximum allowable pressure or vacuum change is twenty-five (25) millimeters H<sub>2</sub>O (one (1) inch H<sub>2</sub>O) in five (5) minutes.
    - (B) Conduct the pressure test of the cargo tank's internal vapor valve as follows:
      - (i) After completing the test under clause (A), use the procedures in 40 CFR 60, Appendix A, Method 27\* to repressurize the tank to four hundred sixty (460) millimeters H<sub>2</sub>O (eighteen (18) inches H<sub>2</sub>O) gauge. Close the transport's internal vapor valve or

valves, thereby isolating the vapor return line and manifold from the tank.

- (ii) Relieve the pressure in the vapor return line to atmospheric pressure, then reseal the line. After five (5) minutes, record the gauge pressure in the vapor return line and manifold. The maximum allowable five (5) minute pressure increase is one hundred thirty (130) millimeters H<sub>2</sub>O (five (5) inches H<sub>2</sub>O).
- (2) Repairs by the gasoline transport owner or operator, if the transport does not meet the criteria of subdivision (1), and retesting to prove compliance with the criteria of subdivision (1).
- (b) The Permittee operating a vapor balance system or vapor control system shall:
  - (1) Design and operate the applicable system and the gasoline loading equipment in a manner that prevents:
    - (A) Gauge pressure from exceeding four thousand five hundred (4,500) pascals (eighteen (18) inches of H<sub>2</sub>O) and a vacuum from exceeding one thousand five hundred (1,500) pascals (six (6) inches of H<sub>2</sub>O) in the gasoline truck;
    - (B) A reading equal to or greater than one hundred percent (100%) of the lower explosive limit (LEL, measured as propane) at two and five-tenths (2.5) centimeters from all points on the perimeter of a potential leak source when measured by a method approved by the commissioner during loading or unloading operations at gasoline bulk terminals; and
    - (C) Avoidable visible liquid leaks during loading or unloading operations at gasoline bulk terminals; and
  - (2) Within fifteen (15) days, repair and retest a vapor collection or control system that exceeds the limits in subdivision (1).
- (c) The Permittee operating a vapor balance or vapor control system subject to this section shall maintain records of all certification testing. The records shall identify the following:
  - (1) The vapor balance, vapor collection, or vapor control system.
  - (2) The date of the test and, if applicable, retest.
  - (3) The results of the test and, if applicable, retest.

The records shall be maintained in a legible, readily available condition for at least two (2) years after the date the testing and, if applicable, retesting were completed.

**D.1.4 Volatile Organic Compounds and Hazardous Air Pollutants [326 IAC 2-2] [326 IAC 2-8] [40 CFR 63, Subpart R]**

- (a) The emissions of VOC from the truck loading rack (NA01) shall be limited to less than 0.338 pounds per thousand (1,000) gallons of throughput based on the maximum annual throughput of 446,760,000 gallons. This limit is equivalent to less than 75.51 tons of VOC per year.
- (b) The emissions of HAP from the truck loading rack (NA01) shall be limited to less than 18.93 pounds per million (1,000,000) gallons of throughput based on the maximum

annual throughput of 446,760,000 gallons. This limit is equivalent to less than 4.23 tons of total HAPs per year.

Compliance with the above conditions will limit the source-wide VOC, single HAP, and total HAPs emissions to less than one hundred (100), ten (10) and twenty-five (25) tons, respectively, per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7 (Part 70) and 40 CFR 63, Subpart R do not apply. Compliance with these limits also makes the source an existing minor source under PSD (326 IAC 2-2).

**D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the loading rack and its control device.

**Compliance Determination Requirements**

**D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1),(4)]**

Pursuant to 326 IAC 2-8-5(a)(1),(4), the Permittee shall perform outlet VOC testing of the vapor control system (vapor combustor) on the loading rack (NA01) using methods approved by the Commissioner in order to verify compliance with the FESOP emission limits of 0.338 pounds VOC per thousand (1,000) gallons of throughput. This test shall be repeated within five (5) years from the date of the first valid compliance demonstration test and shall be repeated every five years thereafter.

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

**D.1.7 Monitoring [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- (a) The vapor control system shall operate at all times that the petroleum product loading rack is operated. The vapor control system shall be interfaced with the loading rack to prevent loading if the control system is not operational. An indicator light shall detect the presence of a pilot flame. This indicator shall be inspected once per business day, and the result shall be recorded. When operating, the vapor combustion unit shall maintain a minimum operating temperature of 1400°F or a temperature, fan amperage and duct velocity determined in the compliance tests to maintain an overall control efficiency of 96%.
- (b) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

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

### **D.1.8 Record Keeping Requirements [326 IAC 8-4-3] [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

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(a) Gasoline Storage Tanks (1001, 2001, 2002, 2003, 2004, 4001, 4002 and 4003)

Pursuant to 326 IAC 8-4-3 and in order to document compliance with Condition D.1.1, the Permittee shall maintain records of the types and amounts of each volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, and the results of the inspections performed on the storage vessels. Such records shall be maintained for a period of two (2) years.

(b) Vapor Combustor (NA01)

(1) In order to document compliance with Condition D.1.7, the Permittee shall maintain a log of flame indicator inspections.

(2) In order to document compliance with Condition D.1.5, the Permittee shall maintain a log of the additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit and shall be made available to the commissioner upon written request.

## SECTION D.2

## FACILITY OPERATION CONDITIONS

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

- (a) Four (4) ethanol storage tanks, constructed after 1984, identified as Tanks 1, 2, 3 and 4, each equipped with fixed roofs, with maximum capacities of 15,000 gallons each.

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

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

#### D.2.1 Record Keeping [326 IAC 12-1]

- (a) Pursuant to 326 IAC 12, the Permittee shall maintain readily accessible records of the following for the ethanol storage tanks:

- (1) The dimension of the storage vessel; and
- (2) An analysis showing the capacity of the storage vessel.

These records shall be maintained for the life of the source.

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

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

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

Source Name: Support Terminal Services dba ST Services  
Source Address: 3350 North Raceway Road Indianapolis, Indiana, 46234  
3218 North Raceway Road Indianapolis, Indiana, 46234  
Mailing Address: P.O. Box 34132, Indianapolis, Indiana, 46234-0132  
FESOP No.: F063-17196-00027

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

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

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

Source Name: Support Terminal Services dba ST Services  
Source Address: 3350 North Raceway Road Indianapolis, Indiana, 46234  
3218 North Raceway Road Indianapolis, Indiana, 46234  
Mailing Address: P.O. Box 34132, Indianapolis, Indiana, 46234-0132  
FESOP No.: F063-17196-00027

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

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
  - C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , 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**

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

Source Name:Support Terminal Services dba ST Services  
 Source Address:3350 North Raceway Road Indianapolis, Indiana, 46234  
 3218 North Raceway Road Indianapolis, Indiana, 46234  
 Mailing Address:P.O. Box 34132, Indianapolis, Indiana, 46234-0132  
 FESOP No.:F063-17196-00027

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

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

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**Issued April 26, 2004**

**Indiana Department of Environmental Management  
Office of Air Quality**

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

**Source Background and Description**

Source Name:	Support Terminal Services dba ST Services
Source Location:	3350 North Raceway Road, Indianapolis, Indiana 46234 3218 North Raceway Road, Indianapolis, Indiana 46234
County:	Hendricks
SIC Code:	4226
Operation Permit No.:	F063-9219-00009
Operation Permit Issuance Date:	October 7, 1998
Permit Renewal No.:	F063-17196-00027
Permit Reviewer:	ERG/ST

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Support Terminal Services dba ST Services relating to the operation of a stationary gasoline terminal.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) gasoline storage tank, constructed in 1953, identified as Tank 201, equipped with an internal floating roof, with a maximum capacity of 84,000 gallons.
- (b) One (1) gasoline storage tank, constructed in 1953 and modified in 2003, identified as 1001, equipped with an internal floating roof, with a maximum capacity of 420,000 gallons, and exhausting to vent 1001.
- (c) Five (5) gasoline storage tanks, constructed in 1953, identified as 2001, 2002, 2003, 2004 and 2006, all equipped with internal floating roofs, each with a maximum capacity of 840,000 gallons, and exhausting to vents 2001, 2002, 2003, 2004 and 2006, respectively.
- (d) One (1) gasoline storage tank, constructed in 1953, identified as 2401, equipped with an internal floating roof, with a maximum capacity of 1,008,000 gallons, and exhausting to vent 2401.
- (e) Three (3) gasoline storage tanks, constructed in 1953, identified as 4001, 4002 and 4003, all equipped with an internal floating roofs, each with a maximum capacity of 1,680,000 gallons, and exhausting to vents 4001, 4002 and 4003, respectively.
- (f) Two (1) kerosene storage tanks, constructed in 1953, identified as 1002 and 1004, each equipped with a vertical fixed roof, each with a maximum capacity of 420,000 gallons, and exhausting to vents 1002 and 1004, respectively.

- (g) One (1) kerosene storage tank, constructed in 1953, identified as 2005, equipped with a vertical fixed roof, with a maximum capacity of 840,000 gallons, and exhausting to vent 2005.
- (h) Three (3) diesel storage tanks, constructed in 1953, identified as 1003, 1005 and 1006, all equipped with vertical fixed roofs, each with a maximum capacity of 420,000 gallons, and exhausting to vents 1003, 1005 and 1006, respectively.
- (i) One (1) diesel storage tank, constructed in 1953, identified as 3001, equipped with a vertical fixed roof, with a maximum capacity of 1,260,000 gallons, and exhausting to vent 3001.
- (j) One (1) diesel storage tank, constructed in 1953, identified as 5501, equipped with a vertical fixed roof, with a maximum capacity of 2,310,000 gallons, and exhausting to vent 5501.
- (k) One (1) truck loading rack, constructed in 1953, identified as NA01, with a maximum capacity of 51,000 gallons per hour and 446,700,000 gallons per year, with VOC emissions controlled by a flare (constructed in 1988), and exhausting to vent NA01.

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

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

### **Insignificant Activities**

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

- (a) Four (4) ethanol storage tanks, constructed after 1984, identified as Tanks 1, 2, 3 and 4, each equipped with fixed roofs, each with a maximum capacity of 15,000 gallons.
- (b) One (1) additive storage tank, constructed after 1984, identified as Tank A-1, equipped with a fixed roof, with a maximum capacity of 7,400 gallons.
- (c) One (1) distillate loading rack, constructed in 1953, identified as NA02, handling only No. 1 fuel oil (kerosene) and No. 2 fuel oil (diesel fuel), with a maximum capacity of 60,800 gallons per hour and 532,608,000 gallons per year, with no control devices.

Note: The distillate loading rack (NA02) was not listed in the original FESOP. The distillate loading rack NA02 was constructed in 1953.

### **Existing Approvals**

The source has been operating under the previous FESOP No. 063-9219-00027, issued October 7, 1998, with an expiration date of October 7, 2003, and the following amendments and revisions:

- (a) First Administrative Amendment 063-11406-00027, issued November 4, 1999;
- (b) Second Administrative Amendment 063-12051-00027, issued July 20, 2000;
- (c) First ReOpening 063-13050-00027, issued September 27, 2001;
- (d) First Minor Permit Modification 063-13607-00027, issued January 25, 2001;
- (e) Third Administrative Amendment 063-16459-00027, issued August 30, 2002;

- (f) Fourth Administrative Amendment 063-16869-00027, issued February 3, 2003.

The following conditions from previous approvals were changed in this FESOP:

- (a) 063-16869-00027, issued on February 3, 2003

Conditions D.1.5, D.1.8, D.1.10, D.1.11(c) and D.1.13, specifying requirements for Tank 1001 in regards to a version of 40 CFR 60, Subpart Kb issued on December 14, 2000.

Reason changed: 40 CFR 60, Subpart Kb was amended on October 15, 2003. Subsequent to those revisions, the requirements of 40 CFR 60, Subpart Kb are no longer applicable to this tank. However, 326 IAC 12 incorporates by reference the version of Subpart Kb that predates the revisions of October 15, 2003. These conditions will remain in effect as being pursuant to 326 IAC 12 until that time that the revised version of 40 CFR 60, Subpart Kb is incorporated into the State of Indiana's SIP. The actual recordkeeping requirements have not changed. Only the rule citations have changed.

- (b) 063-9219-00009, issued on October 7, 1998

Condition D.1.4, specifying a FESOP limit on emissions of VOCs from the storage tanks and loading rack to less than 100 tons per year.

Reason changed: New emission factors from AP-42 and EPA's TANKS 4.0 are being used to calculate VOC emissions for the loading racks (NAO1 and NAO2) and all of the storage tanks (A-1, 1, 2, 3, 4, 201, 1001, 1002, 1003, 1004, 1005, 1006, 2001, 2002, 2003, 2004, 2005, 2006, 2401, 3001, 4001, 4002, 4003 and 5501). The permit limits VOC emissions from loading rack NAO1 to less than 75.5 tons of VOC per year. The permit also limits VOC emissions from the storage tanks (A-1, 1, 2, 3, 4, 201, 1001, 1002, 1003, 1004, 1005, 1006, 2001, 2002, 2003, 2004, 2005, 2006, 2401, 3001, 4001, 4002, 4003 and 5501) and distillate loading rack NAO2 to less than 24.5 tons per year.

### **Enforcement Issue**

- (a) IDEM is aware that the source did not apply for a FESOP renewal in a timely manner. The source submitted a renewal application for their permit on April 23, 2003. The source's current permit (F063-9219-00027) expired October 7, 2003.
- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the operation permit rules.

### **Recommendation**

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

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

An administratively complete FESOP Renewal application for the purposes of this review was received on April 23, 2003.

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

### **Emission Calculations**

See Appendix A of this document for detailed emissions calculations (page 1 through 4).

### Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	0
PM-10	0
SO <sub>2</sub>	0
VOC	1,906
CO	0
NO <sub>x</sub>	0

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

HAP's	Unrestricted Potential Emissions (tons/yr)
Hexane	30.2
Toluene	24.5
Benzene	17.2
2,2,4 Trimethylpentane	15.2
Xylene	9.54
Naphthalene	9.58
TOTAL	107

- (a) The unrestricted potential emissions of VOC is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The unrestricted potential emissions of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) Pursuant to 326 IAC 2-8, this source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict PTE to below Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP).
- (d) Fugitive Emissions  
 Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2, the fugitive emissions are counted toward determination of PSD applicability.

### Potential to Emit After Issuance

The source has opted to remain a FESOP source. The table below summarizes the potential to emit, reflecting all limits of the emission units. Any control equipment is considered enforceable only after issuance of this FESOP and only to the extent that the effect of the control equipment is made practically enforceable in the permit. The source has not constructed any new emission units, but this FESOP renewal includes an emissions unit (distillate loading rack NA02) that was not included in the original FESOP as it was considered an insignificant activity. The source's potential to emit is based on all of the emission units included in this FESOP renewal.

Process/facility	Potential to Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Storage tanks	0	0	0	14.4	0	0	1.54
Loading Rack NA01	0	0	0	30.0	0	0	1.68
Loading Rack NA02	0	0	0	4.26	0	0	0.19
<b>Total Emissions</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48.7</b>	<b>0</b>	<b>0</b>	<b>3.41</b>

**County Attainment Status**

The source is located in Hendricks County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Hendricks County has been designated as attainment or unclassifiable for ozone.
- (b) Hendricks County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD) and 326 IAC 2-2.

**Federal Rule Applicability**

- (a) Tanks # 201, 2001, 2002, 2003, 2004, 2006, 2401, 4001, 4002, 4003, 1002, 1004, 2005, 1003, 1005, 1006, 3001 and 5501 are not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels, (326 IAC 12, 40 CFR Part 60, Subparts K, Ka, and Kb), because they were all constructed prior to June 11, 1973.
- (b) The gasoline storage tank identified as tank # 1001 is not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subpart Kb) because it is a vessel with a design capacity less than 1,589.874 cubic meters and is used for petroleum or condensate stored, processed or treated prior to custody transfer (see 40 CFR 60.110b(d)(4)).
- (c) The truck loading racks (NA01 and NA02) are not subject to the requirements of the New Source Performance Standard for Bulk Gasoline Terminals, (326 IAC 12, 40 CFR Part 60, Subpart XX), because the loading racks commenced construction prior to December 17, 1980 and have not been modified or reconstructed since that date.
- (d) The additive storage tank (Tank A-1) is not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subpart Kb), because it has a capacity less than 75 cubic meters.
- (e) The four (4) ethanol storage tanks (Tanks 1, 2, 3 and 4) are not subject to the New Source Performance Standard for Volatile Organic Liquid Storage Vessels (40 CFR Part 60, Subpart Kb) because they have a capacity less than 75 cubic meters. 40 CFR 60,

Subpart Kb was revised on October 15, 2003. Since the storage tanks (Tanks 1, 2, 3 and 4) store a volatile organic liquid, they are subject to the previous version of 40 CFR 60, Subpart Kb (published December 14, 2000) under 326 IAC 12. (See the State Rule section of this TSD for a discussion of applicable requirements.)

- (f) Pursuant to FESOP No. 063-9219-00027, issued on October 7, 1998, the source has accepted a limit on the potential to emit for a single HAP of less than 9.4 tons per year and a limit on the potential to emit for a combination of HAPs of less than 24 tons per year. This bulk gasoline terminal is not subject to the requirements of 40 CFR 63, Subpart R (National Emissions Standards for Hazardous Air Pollutants for Gasoline Distribution Facilities) because it is not a major source, as defined in 40 CFR 63, Subpart A .

During the period subsequent to the 40 CFR 63, Subpart R compliance date of December 15, 1997 and the current FESOP Permit issuance date of October 7, 1998, the source was not subject to the requirements of 40 CFR 63, Subpart R because the source was not a major source of HAPs. Pursuant to the requirements of OP 063-00009, issued December 23, 1992, the source was operating the vapor collection system and vapor combustor at all times that the truck loading rack (NA01) was in operation. Operation of the vapor collection system and vapor combustor ensures that HAP emissions from the source remain below major source levels.

- (g) The requirements of Section 112(j) of the Clean Air Act (40 CFR Part 63.50 through 63.56) are not applicable to this source because the source is not a major source of HAPs and does not include one or more units that belong to one or more source categories affected by the Section 112(j) MACT Hammer date of May 15, 2002.

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

##### **326 IAC 2-2 (Prevention of Significant Deterioration)**

This source was constructed in 1953 and modified in 2003. This source is in one of the 28 listed source categories because they operate a petroleum storage and transfer facility where the total storage capacity exceeds 300,000 barrels. The source has the potential to emit VOC greater than 100 tons per year before controls when constructed in 1953. The modifications in 2003 consisted of retrofitting tank #1001 with an internal floating roof. The modifications in 2003 did not trigger PSD review because they did not result in an increase in VOC emissions. Therefore, 326 IAC 2-2 did not apply to the 2003 modifications. The source has chosen, under 326 IAC 2-8, to limit its emissions of volatile organic compound (VOC) to less than 100 tons per year. These limits make the source an existing minor source under PSD.

##### **326 IAC 2-4.1-1 (New Source Toxics Control)**

This source is not subject to 326 IAC 2-4.1-1 (New Source Toxics Control) because no modification made after June 27, 1997 has a PTE of HAPs greater than the HAP major source thresholds. Therefore, 326 IAC 2-4.1-1 does not apply.

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

Since this source is located in Hendricks County and the potential to emit criteria pollutants is less than one hundred (100) tons per year, 326 IAC 2-6 does not apply.

##### **326 IAC 2-8-4 (Federally Enforceable State Operating Permit Program)**

The source's potential to emit VOC and HAP are greater than the major source thresholds before control. Pursuant to 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

In order to limit VOC emissions from the entire source to under 100 tons per year and in order to limit emissions of a single HAP to less than 10 tons per year and emissions of a combination of HAPs to less than 25 tons per year:

- (a) The emissions of VOC from the truck loading rack (NA01) shall be limited to less than 0.338 pounds per thousand (1,000) gallons of throughput based on the maximum annual throughput of 446,760,000 gallons. This limit will be achieved using a control device with a control (destruction) efficiency of at least 96% and is equivalent to less than 75.51 tons of VOC per year. In order to comply with this limit, the source shall operate the vapor collection system and vapor combustor at all times that the truck loading rack is in operation.

The results of testing done on the vapor combustion unit on March 28, 2000 indicate a VOC destruction efficiency of 98.41%. This is the average of the three (3) tests performed. The source is currently in compliance with this limit.

- (b) The emissions of HAP from the truck loading rack (NA01) shall be limited to less than 18.93 pounds per million (1,000,000) gallons of throughput based on the maximum annual throughput of 446,760,000 gallons. This limit will be achieved using a control device with a control (destruction) efficiency of at least 96% and is equivalent to less than 4.23 tons of HAPs per year. In order to comply with this limit, the source shall operate the vapor collection system and vapor combustor at all times that the truck loading rack is in operation.

The results of testing done on the vapor combustion unit on March 28, 2000 indicate an organic compound destruction efficiency of 98.41%. This is the average of the three (3) tests performed. The source is currently in compliance with this limit.

Combined with emissions from other emissions units at this source, compliance with the above conditions will limit the source-wide VOC, single HAP, and total HAPs emissions to less than one hundred (100), ten (10) and twenty-five (25) tons, respectively, per twelve (12) consecutive month period, with compliance determined at the end of each month. Therefore, the requirements of 326 IAC 2-7 (Part 70) and 40 CFR 63, Subpart R do not apply. Compliance with these limits also makes the source an existing minor source under PSD (326 IAC 2-2).

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

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), Opacity from a source or facility shall not exceed any of the following limitations, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period.
- (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.

#### **State Rule Applicability - Volatile Liquid Storage Tanks**

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

The storage tanks at this source are subject to 326 IAC 8-4-3 and each of the storage tanks does not have potential VOC emissions greater than 25 tons per year. Therefore the storage tanks are not subject to 326 IAC 8-1-6 (BACT).

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

The source is subject to the provisions of 326 IAC 8-4 because the source is located in Hendricks County.

- (a) Pursuant to 326 IAC 8-4-1, the source is subject to the requirements of 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities) for the eight (8) gasoline storage tanks identified as

1001, 2001, 2002, 2003, 2004, 4001, 4002 and 4003. The listed tanks contain petroleum liquids, have capacities greater than thirty-nine thousand (39,000) gallons and contain volatile organic compounds whose true vapor pressure is greater than 10.5 kPa (1.52 psi).

The source complies with the requirements of this rule by using internal floating roof tanks in these gasoline storage tanks.

- (b) Pursuant to 326 IAC 8-4-3(d), the Permittee shall maintain records including the following:
- (1) the types of volatile petroleum liquids stored;
  - (2) the maximum true vapor pressure; and
  - (3) records of the inspections.

**326 IAC 8-9-1 (Volatile Organic Liquid Storage Vessels)**

The source is not located in Lake, Porter, Clark or Floyd counties. Therefore, the requirements of 326 IAC 8-9-1 do not apply.

**326 IAC 12 (New Source Performance Standards)**

326 IAC 12 incorporates by reference a version of 40 CFR 60, Subpart Kb, that predates the revisions made to 40 CFR 60, Subpart Kb on October 15, 2003. The ethanol storage tanks (identified as tanks 1, 2, 3 and 4) are subject to the requirements of this version of 40 CFR 60, Subpart Kb. The requirements will remain in effect until the State of Indiana incorporates the revised version of 40 CFR, Subpart Kb into its SIP.

Subsequent to the revisions made to 40 CFR 60, Subpart Kb on October 15, 2003, the ethanol storage tanks (identified as tanks 1, 2, 3 and 4) are not subject to the requirements of 40 CFR 60, Subpart Kb, because the tanks have a capacity less than 75 cubic meters. The four (4) ethanol storage tanks are subject to the requirements of 326 IAC 12 because they were constructed after 1984, have a capacity greater than 40 cubic meters but less than 75 cubic meters and are storing a volatile organic liquid (VOL). The Permittee shall keep readily accessible records showing the dimension of the storage vessels and an analysis showing the capacity of the storage vessels. These records shall be kept for the life of the source.

**State Rule Applicability - Truck Loading Rack**

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

The truck loading rack has unrestricted potential VOC emissions greater than 25 tons per year and is subject to the provisions of 326 IAC 8-4-4. Therefore the truck loading rack is not subject to 326 IAC 8-1-6 (BACT).

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

The source is subject to the provisions of 326 IAC 8-4-4 because it is located in Hendricks County and is engaged in the business of loading gasoline into any transport, excluding railroad tank cars and barges. Pursuant to 326 IAC 8-4-4:

- (a) No owner or operator of a bulk gasoline terminal shall permit the loading of gasoline into any transport, excluding railroad tank cars or barges, unless:
- (1) the bulk gasoline terminal is equipped with a vapor control system, in good working order, in operation and consisting of a vapor collection system which directs all vapors to a fuel gas system or incinerator;
  - (2) displaced vapors and gases are vented only to the vapor control system;

- (3) a means is provided to prevent liquid drainage from the loading device when it is not in use or to accomplish complete drainage before the loading device is disconnected; and
  - (4) all loading and vapor lines are equipped with fittings which make vapor tight connections and which will be closed upon disconnection.
- (b) If employees of the owner of the bulk gasoline terminal are not present during loading, it shall be the responsibility of the owner of the transport to make certain the vapor control system is attached to the transport. The owner of the terminal shall take all reasonable steps to insure that owners of transports loading at the terminal during unsupervised times comply with this section.

All vapors and gases are vented to the vapor control system and hence satisfy the requirements of this rule.

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

The source is not subject to the requirements of 326 IAC 8-4-5 (Bulk Gasoline Plants) since the source does not meet the definition of a bulk gasoline plant, which requires a daily gasoline throughput of less than 20,000 gallons per day. Therefore, the requirements of this rule do not apply.

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

The source is not subject to the requirements of 326 IAC 8-4-6 (Gasoline Dispensing Facilities) since the source does not dispense gasoline into motor vehicles or portable containers from a storage tank. Therefore, the requirements of this rule do not apply.

326 IAC 8-4-7 (Gasoline Transports)

The source is subject to the provisions of 326 IAC 8-4-7 because it is located in Hendricks County and transfers gasoline between transports and storage tanks. Pursuant to 326 IAC 8-4-7, the permittee shall be responsible to insure that the Vapor Recovery Unit is attached to all transports and that the owners of all transports loading at the terminal comply with this rule. The requirements of the owner or operator of the bulk gasoline terminal are addressed in 326 IAC 8-4-4, above.

326 IAC 8-4-9 (Leaks from Transports and Vapor Collection Systems; Records)

The source is subject to 326 IAC 8-4-9 because it transfers petroleum products from tanks to transports through loading racks and the source is subject to 326 IAC 8-4-4. Pursuant to 326 IAC 8-4-9:

- (a) The Permittee shall not allow a gasoline transport that is subject to this rule and that has a capacity of two thousand (2,000) gallons or more to be filled or emptied unless the gasoline transport completes the following:
  - (1) Annual leak detection testing before the end of the twelfth calendar month following the previous year's test, according to test procedures contained in 40 CFR 63.425(e), as follows:
    - (A) Conduct the pressure and vacuum tests for the transport's cargo tank using a time period of five (5) minutes. The initial pressure for the pressure test shall be four hundred sixty (460) millimeters H<sub>2</sub>O (eighteen (18) inches H<sub>2</sub>O) gauge. The initial vacuum for the vacuum test shall be one hundred fifty (150) millimeters H<sub>2</sub>O (six (6) inches H<sub>2</sub>O) gauge. The maximum allowable pressure or vacuum change is twenty-five (25) millimeters H<sub>2</sub>O (one (1) inch H<sub>2</sub>O) in five (5) minutes.

- (B) Conduct the pressure test of the cargo tank's internal vapor valve as follows:
  - (i) After completing the test under clause (A), use the procedures in 40 CFR 60, Appendix A, Method 27 to repressurize the tank to four hundred sixty (460) millimeters H<sub>2</sub>O (eighteen (18) inches H<sub>2</sub>O) gauge. Close the transport's internal vapor valve or valves, thereby isolating the vapor return line and manifold from the tank.
  - (ii) Relieve the pressure in the vapor return line to atmospheric pressure, then reseal the line. After five (5) minutes, record the gauge pressure in the vapor return line and manifold. The maximum allowable five (5) minute pressure increase is one hundred thirty (130) millimeters H<sub>2</sub>O (five (5) inches H<sub>2</sub>O).
- (2) Repairs by the gasoline transport owner or operator, if the transport does not meet the criteria of subdivision (1), and retesting to prove compliance with the criteria of subdivision (1).
- (b) The Permittee operating a vapor balance system or vapor control system shall:
  - (1) Design and operate the applicable system and the gasoline loading equipment in a manner that prevents:
    - (A) Gauge pressure from exceeding four thousand five hundred (4,500) pascals (eighteen (18) inches of H<sub>2</sub>O) and a vacuum from exceeding one thousand five hundred (1,500) pascals (six (6) inches of H<sub>2</sub>O) in the gasoline truck;
    - (B) A reading equal to or greater than one hundred percent (100%) of the lower explosive limit (LEL, measured as propane) at two and five-tenths (2.5) centimeters from all points on the perimeter of a potential leak source when measured by a method approved by the commissioner during loading or unloading operations at gasoline bulk terminals; and
    - (C) Avoidable visible liquid leaks during loading or unloading operations at gasoline bulk terminals; and
  - (2) Within fifteen (15) days, repair and retest a vapor collection or control system that exceeds the limits in subdivision (1).
- (c) The Permittee operating a vapor balance or vapor control system subject to this section shall maintain records of all certification testing. The records shall identify the following:
  - (1) The vapor balance, vapor collection, or vapor control system.
  - (2) The date of the test and, if applicable, retest.
  - (3) The results of the test and, if applicable, retest.

The records shall be maintained in a legible, readily available condition for at least two (2) years after the date the testing and, if applicable, retesting were completed.

## Testing Requirements

Pursuant to 326 IAC 2-8-5(a)(1),(4), the Permittee shall perform outlet VOC testing of the vapor control system (vapor combustor) on the loading rack (NA01) using methods approved by the Commissioner in order to verify compliance with the FESOP emission limits of 0.338 pounds VOC per thousand (1,000) gallons of throughput. This test shall be repeated within five (5) years from the date of the most recent valid compliance demonstration test (March 28, 2000) and shall be repeated every five years thereafter.

The testing is necessary to determine if the vapor combustor is functioning according to design specifications and is keeping total VOC and HAP emissions at this source below the limits imposed by the FESOP permit.

## Compliance Requirements

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

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

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

1. The vapor combustion unit on the truck loading rack (NA01) has applicable compliance monitoring conditions as specified below:
  - (a) The vapor combustion unit shall operate at all times that the petroleum product loading rack is operated. The vapor control system shall be interfaced with the loading rack to prevent loading if the control system is not operational. An indicator light shall detect the presence of a pilot flame. This indicator shall be inspected once per business day, and the result shall be recorded. When operating, the vapor combustion unit shall maintain a minimum operating temperature of 1400°F or a temperature, determined in the most recent compliance tests to maintain an overall control efficiency of 96%;
  - (b) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan;
  - (c) The Permittee shall maintain a log of flame indicator inspections and those additional inspections prescribed by the Preventative Maintenance Plan.

These monitoring conditions are necessary because the vapor combustor must operate properly to ensure compliance with 326 IAC 2-8 (FESOP).

## **Conclusion**

The operation of this stationary gasoline terminal shall be subject to the conditions of the attached FESOP No.: F063-17196-00027.

**Appendix A: Emission Calculations**  
**VOC Emissions from Truck Loading Rack NA01**

**Company Name:** Support Terminal Services dba ST Services  
**Address:** 3350 & 3218 North Raceway Road, Indianapolis, Indiana 46234  
**FESOP:** F063-17196-00027  
**Plant ID:** 063-00027  
**Reviewer:** ERG/ST  
**Date:** December 31, 2003

**Potential To Emit from Truck Loading/Unloading Operation NA01**

Material	Max. Throughput	Emission Factor	PTE VOC	PTE VOC After Controls
	(gal/year)	(lb/10 <sup>3</sup> gal)	(tons/year)	(tons/year)
Unleaded Gasoline	446,760,000	8.45	1,888	30.0

The emission factor for tank truck loading losses is calculated using the formula from AP-42, Chapter 5.2 - Transportation and Marketing of Petroleum Liquids. Gasoline is chosen as worst case scenario.

$$L_L = 12.46 \text{ SPM/T}$$

where :

$L_L$  = Loading Loss (lb/10<sup>3</sup> gallon of gasoline)

M = Molecular weight of vapors

$$M = 66.67$$

P = true vapor pressure of liquid loaded, psia

$$P = 5.3$$

T = temperature of liquid loaded (°F + 460)

$$\text{Average temperature of dispensed liquid} = 61 \text{ }^\circ\text{F}$$

S = saturation factor

$$S = 1 : \text{dedicated vapor balance service}$$

The Reid Vapor Pressure of gasoline currently sold in Indiana is 9.0 psi. (IDEM, OAQ, Sept. 1998)

The average temperature of dispensed liquids is 61 degrees Fahrenheit. (EPA-450/3-91-022a (11/91)).

Vapor Molecular Weight and True Vapor Pressure are from AP-42, Chapter 7.1 - Liquid Storage Tanks, Table 7.1-2. (9/97)

Control Efficiency is from stack tests conducted at source. VOC destruction efficiency = 98.41 %.

**Methodology**

Maximum Throughput (gallons/yr) = 6 trucks/hr x 8,500 gallons/truck x 8,760 (hr/yr)

PTE VOC (tons/year) = Max. throughput (gallons/yr) x Emission factor (lbs/1000 gallons) x 1 ton/2000 lbs

PTE VOC After Controls (tons/year) = PTE VOC (tons/yr) x (1- Control Efficiency)

**Appendix A: Emission Calculations  
VOC Emissions from Truck Loading Rack NA02**

**Company Name:** Support Terminal Services dba ST Services  
**Address:** 3350 & 3218 North Raceway Road, Indianapolis, Indiana 46234  
**FESOP:** F063-17196-00027  
**Plant ID:** 063-00027  
**Reviewer:** ERG/ST  
**Date:** December 31, 2003

**Potential To Emit from Truck Loading/Unloading Operation NA02**

Material	Max. Throughput	Emission Factor	PTE VOC
	(gal/year)	(lb/10 <sup>3</sup> gal)	(tons/year)
Diesel Fuel	532,608,000	0.014	3.73
Kerosene	532,608,000	0.016	4.26

The emission factor for tank truck loading losses is calculated using the formula from AP-42, Chapter 5.2 - Transportation and Marketing of Petroleum Liquids. Kerosene is chosen as worst case scenario.

Emission Factors for Diesel Fuel and Kerosene are from AP-42, Transportation and Marketing of Petroleum Liquids, Table 5.2-5 (1/95). Diesel Fuel contains 0.375% by weight of the HAP Napthalene. Kerosene contains 0.04% by weight of the HAP Napthalene.

**Methodology**

Maximum Throughput (gallons/yr) = 8 trucks/hr x 7,600 gallons/truck x 8,760 (hr/yr)

PTE VOC (tons/year) = Max. throughput (gallons/yr) x Emission factor (lbs/1000 gallons) x 1 ton/2000 lbs

PTE HAP (tons/yr) = PTE VOC Diesel Fuel (tons/yr) x 0.00375

**Appendix A: Emission Calculations**  
**VOC Emissions from Tanks**

**Company Name:** Support Terminal Services dba ST Services  
**Address:** 3350 & 3218 North Raceway Road, Indianapolis, Indiana 46234  
**FESOP:** F063-17196-00027  
**Plant ID:** 063-00027  
**Reviewer:** ERG/ST  
**Date:** December 31, 2003

Tank ID #	Fuel	Roof Type	Diameter (ft)	Height (ft)	Maximum Capacity (gal)	Working Volume (gal)	Estimated Annual Throughput (gal)	Estimated Annual Turnovers	Year Constructed	VOC Emissions (lbs/yr)	VOC Emissions (ton/yr)
201	Gasoline	Internal Floating	25	20	84,000	66,091	2,976,325	45.0	1953	1031	0.52
1001	Gasoline	Internal Floating	42	40	420,000	393,798	17,734,132	45.0	1953	1111	0.56
2001	Gasoline	Internal Floating	60	40	840,000	803,670	36,192,106	45.0	1953	1792	0.90
2002	Gasoline	Internal Floating	60	40	840,000	803,670	36,192,106	45.0	1953	1792	0.90
2003	Gasoline	Internal Floating	60	40	840,000	803,670	36,192,106	45.0	1953	1792	0.90
2004	Gasoline	Internal Floating	60	40	840,000	803,670	36,192,106	45.0	1953	1792	0.90
2006	Gasoline	Internal Floating	60	40	840,000	803,670	36,192,106	45.0	1953	1792	0.90
2401	Gasoline	Internal Floating	70	40	1,008,000	1,093,884	49,261,478	45.0	1953	2079	1.04
4001	Gasoline	Internal Floating	80	40	1,680,000	1,428,746	64,341,522	45.0	1953	2321	1.16
4002	Gasoline	Internal Floating	80	40	1,680,000	1,428,746	64,341,522	45.0	1953	2321	1.16
4003	Gasoline	Internal Floating	80	40	1,680,000	1,428,746	64,341,522	45.0	1953	2321	1.16
1002	Kerosene	Fixed Cone	42	40	420,000	393,798	33,752,249	85.7	1953	402	0.20
1004	Kerosene	Fixed Cone	42	40	420,000	393,798	33,752,249	85.7	1953	402	0.20
2005	Kerosene	Fixed Cone	60	40	840,000	803,670	68,882,141	85.7	1953	839	0.42
1003	Diesel	Fixed Cone	42	40	420,000	393,798	33,752,249	85.7	1953	317	0.16
1005	Diesel	Fixed Cone	42	40	420,000	393,798	33,752,249	85.7	1953	317	0.16
1006	Diesel	Fixed Cone	42	40	420,000	393,798	33,752,249	85.7	1953	317	0.16
3001	Diesel	Fixed Cone	70	44	1,260,000	1,209,029	103,625,327	85.7	1953	996	0.50
5501	Diesel	Fixed Cone	100	40	2,310,000	2,232,416	191,339,281	85.7	1953	1858	0.93
1	Ethanol	Fixed Cone	12	18	15,000	13,535	609,551	45.0	After 1984	353	0.18
2	Ethanol	Fixed Cone	12	18	15,000	13,535	609,551	45.0	After 1984	353	0.18
3	Ethanol	Fixed Cone	12	18	15,000	13,535	609,551	45.0	After 1984	353	0.18
4	Ethanol	Fixed Cone	12	18	15,000	13,535	609,551	45.0	After 1984	353	0.18
A-1	MTBE	Fixed Cone	8	20	7,400	6,768	304,776	45.0	After 1984	1825	0.91
<b>Total VOC Emissions (tons/yr)</b>											<b>14.4</b>

Maximum Throughput Capacity of Loading Rack NA01 = 446,700,000 gallons

Maximum Throughput Capacity of Loading Rack NA02 = 532,608,000 gallons

Storage Tank Emissions are calculated using EPA's TANKS 4.0, information provided by the source and the above estimates of working volume, annual turnovers and annual throughput.

**Methodology:**

Working Volume (gal) =  $3.1416 \times (\text{tank diameter (ft)} / 2)^2 \times (\text{tank height (ft)} - 2) \times 7.48$  (gal/cubic foot)

Estimated Turnovers per year (diesel fuel and kerosene tanks) = Maximum Throughput capacity of Loading Rack NA02

Estimated Turnovers per year (gasoline, ethanol and MTBE tanks) = Maximum Throughput capacity of Loading Rack NA01

**Appendix A: Emission Calculations**  
**HAP Emissions from Truck Loading Racks and Tanks**

**Company Name:** Support Terminal Services dba ST Services  
**Address:** 3350 &3218 North Raceway Road, Indianapolis, Indiana 46234  
**FESOP:** F063-17196-00027  
**Plant ID:** 063-00027  
**Reviewer:** ERG/ST  
**Date:** December 31, 2003

	Emission Factors						
	Hexane	Benzene	Toluene	2,2,4 Trimethyl- pentane	Xylenes	Naphthalene	MTBE
Gasoline	.016	0.009	0.013	0.008	0.005	0.005	0
Diesel Fuel	0.000	0.000	0.000	0.000	0.001	0.010	0
Kerosene	.0004	0.018	0.002	0.000	0.010	0.015	0
Additive	0.000	0.000	0.000	0.000	0.000	0.000	1

VOC and HAP emissions (tons/year)											
Facility/ Tank ID #	Fuel Type	VOC (tons/yr)	Hexane	Benzene	Toluene	2,2,4 Trimethyl- pentane	Xylenes	Naphthalene	MTBE	Total HAPs Before Controls (ton/yr)	Total HAPs After Controls (ton/yr)
NA01	Gasoline	1887.691	30.203	16.989	24.540	15.102	9.438	9.438	0.000	105.7	1.681
NA02	Kerosene	4.261	0.002	0.077	0.008	0.000	0.043	0.064	0.000	0.193	0.193
201	Gasoline	0.515	0.008	0.005	0.007	0.004	0.003	0.003	0.000	0.029	0.029
1001	Gasoline	0.556	0.009	0.005	0.007	0.004	0.003	0.003	0.000	0.031	0.031
2001	Gasoline	0.896	0.014	0.008	0.012	0.007	0.004	0.004	0.000	0.050	0.050
2002	Gasoline	0.896	0.014	0.008	0.012	0.007	0.004	0.004	0.000	0.050	0.050
2003	Gasoline	0.896	0.014	0.008	0.012	0.007	0.004	0.004	0.000	0.050	0.050
2004	Gasoline	0.896	0.014	0.008	0.012	0.007	0.004	0.004	0.000	0.050	0.050
2006	Gasoline	0.896	0.014	0.008	0.012	0.007	0.004	0.004	0.000	0.050	0.050
2401	Gasoline	1.039	0.017	0.009	0.014	0.008	0.005	0.005	0.000	0.058	0.058
4001	Gasoline	1.160	0.019	0.010	0.015	0.009	0.006	0.006	0.000	0.065	0.065
4002	Gasoline	1.160	0.019	0.010	0.015	0.009	0.006	0.006	0.000	0.065	0.065
4003	Gasoline	1.160	0.019	0.010	0.015	0.009	0.006	0.006	0.000	0.065	0.065
1002	Kerosene	0.201	0.000	0.004	0.000	0.000	0.002	0.003	0.000	0.009	0.009
1004	Kerosene	0.201	0.000	0.004	0.000	0.000	0.002	0.003	0.000	0.009	0.009
2005	Kerosene	0.420	0.000	0.008	0.001	0.000	0.004	0.006	0.000	0.019	0.019
1003	Diesel	0.158	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.002
1005	Diesel	0.158	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.002
1006	Diesel	0.158	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.002	0.002
3001	Diesel	0.498	0.000	0.000	0.000	0.000	0.000	0.005	0.000	0.005	0.005
5501	Diesel	0.929	0.000	0.000	0.000	0.000	0.001	0.009	0.000	0.010	0.010
1	Ethanol	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	Ethanol	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	Ethanol	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	Ethanol	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
A-1	Additive	0.913	0.000	0.000	0.000	0.000	0.000	0.000	0.913	0.913	0.913
<b>Total HAPs Emissions Before Controls =</b>										<b>107</b>	
<b>Total HAPs Emissions After Controls =</b>											<b>3.41</b>

Emissions of HAPs as weight percent of Kerosene and Diesel Fuel Vapors are from Material Safety Data Sheets.  
Emissions of HAPs as weight percent of gasoline vapors are from EPA publication EPA-450/3-91-022a, Table 3-2.  
Technical Guidance - Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities.

**Methodology**

PTE VOC (tons/yr) from Appendix A: pages 1, 2 and 3

PTE HAPs (tons/yr) = PTE VOC (tons/yr) x Emission Factor (HAP content of VOC (weight percent))

PTE HAPs After Controls (tons/yr) = PTE VOC (tons/yr) x Total HAP content of VOC (weight percent) x ( 1 - Control Efficiency)