



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: August 15, 2005  
RE: CITGO Petroleum Corp / 089-17523-00307  
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, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

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

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

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

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

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

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



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## PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Citgo Petroleum Corporation - East Chicago Terminal  
2500 East Chicago Avenue  
East Chicago, Indiana 46312**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T 089-17523-00307	
Issued by: Original Signed By: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: August 15, 2005 Expiration Date: August 15, 2010

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## SECTION A

## SOURCE SUMMARY

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

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

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The Permittee owns and operates a stationary bulk petroleum terminal.

Responsible Official:	Terminal Manager
Source Address:	2500 East Chicago Avenue, East Chicago, Indiana 46312
Mailing Address:	P.O. Box 178, East Chicago, Indiana 46312
General Source Phone Number:	(219) 398-0734
SIC Code:	5171
County Location:	Lake
Source Location Status:	Nonattainment for PM <sub>2.5</sub> , SO <sub>2</sub> , and ozone under the 1-hour and 8-hour standards
Source Status:	Attainment for all other criteria pollutants Part 70 Permit Program Major Source, under Emission Offset Rules 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 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) submerged bottom loading, tank truck loading rack, identified as LR1, constructed in 1985, equipped with two (2) loading arms with a total loading rate of 72,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 psia per hour, exhausting to Stack 80, capacity: 210,240,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 psia per year.

#### **Tanks That Have Not Been Retrofitted With Internal Floating Roofs**

- (b) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 1 and 2, each constructed in 1948, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 1 and 2, capacity: 5,880,000 gallons, each.
- (c) One (1) vertical fixed coned roof storage tank, identified as Tank 6, constructed in 1948, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stack 6, capacity: 5,040,000 gallons.
- (d) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 14 and 17, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 14 and 17, capacity: 3,360,000 gallons each.
- (e) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 18 and 19, each constructed in 1940, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 18 and 19, capacity: 3,360,000 gallons each.

- (f) Eleven (11) vertical fixed coned roof storage tanks, identified as Tanks 20 - 22, 25 - 28, 30 - 32, and 42, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 20 - 22, 25 - 28, 30 - 32, and 42, capacity: 2,310,000 gallons each.
- (g) One (1) vertical fixed coned roof storage tank, identified as Tank 36, constructed in 1953, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stack 36, capacity: 2,310,000 gallons.

#### **Tanks That Have Been Retrofitted With Internal Floating Roofs**

- (h) One (1) vertical fixed coned roof, identified as Tank 3, constructed in 1948, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 3, capacity: 5,880,000 gallons.
- (i) Four (4) vertical fixed coned roof storage tanks, identified as Tanks 4, 5, 10, and 11, each constructed in 1954, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 4, 5, 10, and 11, capacity: 5,880,000 gallons, each.
- (j) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 7 and 57, each constructed in 1948, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 7 and 57, capacity: 5,040,000 gallons, each.
- (k) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 8 and 9, each constructed in 1953, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 8 and 9, capacity: 5,880,000 gallons, each.
- (l) Seven (7) vertical fixed coned roof storage tanks, identified as Tanks 13, 15, 16, 52 - 54, and 59, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 13, 15, 16, and 52 - 54, and 59, capacity: 3,360,000 gallons, each.
- (m) Five (5) vertical fixed coned roof storage tanks, identified as Tanks 33, 34, and 39 - 41, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 33, 34, and 39 - 41, capacity: 2,310,000 gallons, each.
- (n) One (1) vertical fixed coned roof storage tank, identified as Tank 35, constructed in 1954, later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 35, capacity: 2,310,000 gallons.
- (o) Three (3) vertical fixed coned roof storage tanks, identified as Tanks 37, 38, and 51, each constructed in 1955, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 37, 38, and 51, capacity: 2,310,000 gallons, each.
- (p) One (1) vertical fixed coned roof storage tank, identified as Tank 43, constructed in 1942, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 43, capacity: 2,310,000 gallons.
- (q) One (1) vertical fixed coned roof, identified as Tank 44, constructed in 1943, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 44, capacity: 2,310,000 gallons.

- (r) One (1) vertical fixed coned roof in storage tank, identified as Tank 45, constructed in 1945, later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 45, capacity: 2,310,000 gallons.
- (s) Two (2) vertical fixed coned roof storage tank, identified as Tanks 46 and 48, each constructed in 1951, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 46 and 48, capacity: 2,310,000 gallons, each.
- (t) One (1) vertical fixed coned roof storage tank, identified as Tank 47, constructed in 1952, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 47, capacity: 2,310,000 gallons, each.
- (u) One (1) vertical fixed coned roof storage tank, identified as Tank 55, constructed in 1937, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 55, capacity: 5,670,000 gallons.
- (v) One (1) vertical fixed coned roof storage tanks, identified as Tank 56, constructed in 1940, later retrofitted with an internal floating roof storing gasoline, distillates and/or jet kerosene, exhausting to Stack 56, capacity: 3,360,000 gallons.
- (w) One (1) vertical fixed coned roof storage tank, identified as Tank 58, constructed in 1948, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 58, capacity: 5,355,000 gallons.
- (x) One (1) vertical fixed coned roof storage tank, identified as Tank 88, constructed in 1935, each later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 88, capacity: 420,000 gallons.

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

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

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

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T 089-17523-00307, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

### B.4 Enforceability [326 IAC 2-7-7]

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

### B.5 Severability [326 IAC 2-7-5(5)]

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

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as

defined by 326 IAC 2-7-1(34).

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

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) 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 "responsible official" as defined by 326 IAC 2-7-1(34).
- (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.11 Emergency Provisions [326 IAC 2-7-16]

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

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section), or  
Telephone Number: 317-233-5674 (ask for Compliance Section)  
Facsimile Number: 317-233-5967

- (5) Northwest Regional Office: 219-757-0265, Facsimile Number: 219-757-0267  
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  
Indianapolis, Indiana 46204

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

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

rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

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- (a) All terms and conditions of permits established prior to T 000-0000-00000 and issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or

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

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

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

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The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]**

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]**

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

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for

which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
- (c) 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  
Indianapolis, Indiana 46204

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-

1(34).

- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]
- (e) 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.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]**

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- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

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

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
  - (3) The changes do not result in emissions which exceed the 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  
Indianapolis, Indiana 46204  
  
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 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public

review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

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

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

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

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade 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 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-3-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-3-2.

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;

- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
  
The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

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

B.25 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**C.1 Opacity [326 IAC 5-1]**

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

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

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

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

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

**C.5 Operation of Equipment [326 IAC 2-7-6(6)]**

Except as otherwise provided by statute or 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.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

- (2) If there is a change in the following:
  - (A) Asbestos removal or demolition start date;
  - (B) Removal or demolition contractor; or
  - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

#### **C.7 Performance Testing [326 IAC 3-6]**

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

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

#### **Compliance Requirements [326 IAC 2-1.1-11]**

##### **C.8 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

##### **C.9 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

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

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

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

##### **C.10 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

---

Any monitoring or testing required by Section D of this permit shall be performed according to the

provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

**C.11 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on December 13, 1996.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.12 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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

**C.13 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, 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 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 and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (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
  - (2) If none of the reasonable response steps listed in the Compliance Response 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 ten (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 notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response 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 a minor permit modification 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 2-7-16 (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.14 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred 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 "responsible official" as defined by 326 IAC 2-7-1(34).

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

**C.15 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)] [326 IAC 2-6]**

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

- (1) starting in 2007 and every three (3) years thereafter, and
  - (2) any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

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

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

C.16 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-3-1 (II)) at an existing emissions unit other than projects at a Clean Unit), which is not part of a "major modification" (as defined in 326 IAC 2-3-1 (z)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-3-1 (II)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project;
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project;

- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-3-1(mm)(2)(A)(3); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.17 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-3]

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C-

General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq)) or 326 IAC 2-3-1 (ll)) at an existing emissions unit and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
- (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.18 Compliance with 40 CFR 82 and 326 IAC 22-1**

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

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

**SECTION D.1**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]: Bulk Petroleum Terminal Emission Units**

- (a) One (1) submerged bottom loading, tank truck loading rack, identified as LR1, constructed in 1985, equipped with two (2) loading arms with a total loading rate of 72,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 psia per hour, exhausting to Stack 80, capacity: 210,240,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 psia per year.

**Tanks That Have Not Been Retrofitted With Internal Floating Roofs**

- (b) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 1 and 2, each constructed in 1948, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 1 and 2, capacity: 5,880,000 gallons, each.
- (c) One (1) vertical fixed coned roof storage tank, identified as Tank 6, constructed in 1948, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stack 6, capacity: 5,040,000 gallons.
- (d) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 14 and 17, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 14 and 17, capacity: 3,360,000 gallons each.
- (e) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 18 and 19, each constructed in 1940, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 18 and 19, capacity: 3,360,000 gallons each.
- (f) Eleven (11) vertical fixed coned roof storage tanks, identified as Tanks 20 - 22, 25 - 28, 30 - 32, and 42, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stacks 20 - 22, 25 - 28, 30 - 32, and 42, capacity: 2,310,000 gallons each.
- (g) One (1) vertical fixed coned roof storage tank, identified as Tank 36, constructed in 1953, storing distillates and/or jet kerosene with a vapor pressure less than 0.75 psia, exhausting to Stack 36, capacity: 2,310,000 gallons.

**Tanks That Have Been Retrofitted With Internal Floating Roofs**

- (h) One (1) vertical fixed coned roof, identified as Tank 3, constructed in 1948, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 3, capacity: 5,880,000 gallons.
- (i) Four (4) vertical fixed coned roof storage tanks, identified as Tanks 4, 5, 10, and 11, each constructed in 1954, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 4, 5, 10, and 11, capacity: 5,880,000 gallons, each.
- (j) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 7 and 57, each constructed in 1948, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 7 and 57, capacity: 5,040,000 gallons, each.
- (k) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 8 and 9, each constructed in 1953, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 8 and 9, capacity: 5,880,000 gallons, each.
- (l) Seven (7) vertical fixed coned roof storage tanks, identified as Tanks 13, 15, 16, 52 - 54, and 59, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 13, 15, 16, and 52 - 54, and 59, capacity: 3,360,000 gallons, each.

- (m) Five (5) vertical fixed coned roof storage tanks, identified as Tanks 33, 34, and 39 - 41, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 33, 34, and 39 - 41, capacity: 2,310,000 gallons, each.
- (n) Five (5) vertical fixed coned roof storage tanks, identified as Tanks 33, 34, and 39 - 41, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 33, 34, and 39 - 41, capacity: 2,310,000 gallons, each.
- (o) Three (3) vertical fixed coned roof storage tanks, identified as Tanks 37, 38, and 51, each constructed in 1955, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 37, 38, and 51, capacity: 2,310,000 gallons, each.
- (p) One (1) vertical fixed coned roof storage tank, identified as Tank 43, constructed in 1942, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 43, capacity: 2,310,000 gallons.
- (q) One (1) vertical fixed coned roof, identified as Tank 44, constructed in 1943, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 44, capacity: 2,310,000 gallons.
- (r) One (1) vertical fixed coned roof in storage tank, identified as Tank 45, constructed in 1945, later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 45, capacity: 2,310,000 gallons.
- (s) Two (2) vertical fixed coned roof storage tank, identified as Tanks 46 and 48, each constructed in 1951, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 46 and 48, capacity: 2,310,000 gallons, each.
- (t) One (1) vertical fixed coned roof storage tank, identified as Tank 47, constructed in 1952, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 47, capacity: 2,310,000 gallons, each.
- (u) One (1) vertical fixed coned roof storage tank, identified as Tank 55, constructed in 1937, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 55, capacity: 5,670,000 gallons.
- (v) One (1) vertical fixed coned roof storage tanks, identified as Tank 56, constructed in 1940, later retrofitted with an internal floating roof storing gasoline, distillates and/or jet kerosene, exhausting to Stack 56, capacity: 3,360,000 gallons.
- (w) One (1) vertical fixed coned roof storage tank, identified as Tank 58, constructed in 1948, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 58, capacity: 5,355,000 gallons.
- (x) One (1) vertical fixed coned roof storage tank, identified as Tank 88, constructed in 1935, each later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 88, capacity: 420,000 gallons.

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

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

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

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, except when otherwise specified in 40 CFR Part 60, Subpart Kb.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 12] [40 CFR 60.112b]

Pursuant to 40 CFR 60.112(b)(a)(1), The Permittee of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88 shall equip each storage vessel with the following:

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

- (a) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.
- (b) Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
  - (1) A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
  - (2) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
  - (3) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- (c) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
- (d) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.
- (e) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
- (f) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
- (g) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
- (h) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

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

#### D.1.3 Volatile Organic Compounds [326 IAC 8-4-3(b)]

Pursuant to 326 IAC 8-4-3(b)(1), the Permittee shall not permit the use of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, unless:

- (a) The facility has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall unless the source has been retrofitted with equally effective alternative control which has been approved.
- (b) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.
- (c) All openings, except stub drains, are equipped with covers, lids, or seals such that:
  - (1) The cover, lid, or seal is in the closed position at all times except when in actual use;
  - (2) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
  - (3) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.

#### D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, and any control devices.

### **Compliance Determination Requirements**

#### D.1.5 Testing and Procedures [326 IAC 12] [326 IAC 60.113b]

Pursuant to 326 IAC 60.113b, for Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, the Permittee of shall:

- (a) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.
- (b) For vessels equipped with a liquid-mounted or mechanical shoe primary secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this paragraph cannot be repaired within forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from the IDEM, OAQ in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.



- (c) For vessels equipped with a double-seal system as specified in 40 CFR 60.112b(a)(1)(ii)(B):
  - (1) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(4) at least every five (5) years; or
  - (2) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(2).
- (d) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than five (5) years in the case of vessels specified in 40 CFR 60.113b(a)(3)(i).
- (e) Notify IDEM, OAQ in writing at least thirty (30) days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) of this section to afford IDEM OAQ and USEPA the opportunity to have an observer present. If the inspection required by 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance or refilling the tank, the owner or operator shall notify IDEM, OAQ at least seven (7) days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by IDEM, OAQ at least seven (7) days prior to the refilling.

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

#### **D.1.6 Monitoring or Operations [326 IAC 12] [326 IAC 60.116b]**

- (a) For Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, the Permittee shall:
  - (1) Keep copies of all records required by 40 CFR 60.116b, except for the record required by 40 CFR 60.116b(b) for at least two (2) years.
  - (2) Keep readily accessible records showing the dimension of each storage vessel and an analysis showing the capacity of each storage vessel. These records shall be kept for the life of the source.
  - (3) Maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
  - (4) Notify IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.
- (b) Pursuant to 40 CFR 60.116b(e), available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

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

Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see 40 CFR 60.17), unless IDEM, OAQ specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

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

#### **D.1.7 Record Keeping Requirements [326 IAC 12] [326 IAC 60.115b(a)(2)]**

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- (a) Pursuant to 326 IAC 60.115b(a)(2), for Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, the Permittee shall keep a record of each inspection performed as required by Condition D.1.5. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
- (b) To document compliance with Condition D.1.4, the Permittee shall maintain records of any 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.

#### **D.1.8 Record Keeping Requirements [326 IAC 8-9-6]**

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Pursuant to 326 IAC 8-9-6, for Tanks 1, 2, 6, 14, 17 - 19, 20 - 22, 25 - 28, 30 - 32, 36, and 42, the Permittee shall:

- (a) For the life of the source, maintain a record and submit to the IDEM, OAQ a report containing the following information for each vessel:
  - (1) The vessel identification number;
  - (2) The vessel dimensions; and
  - (3) The vessel capacity.
- (b) For three (3) years, maintain a record of the maximum true vapor pressure of the VOL stored in each vessel. The record for each vessel shall contain the following information:
  - (1) The type of VOL stored;
  - (2) The dates of the VOL storage; and
  - (3) For each day of VOL storage, the average stored temperature for VOLs stored above or below the ambient temperature or average ambient temperature for VOLs stored at ambient temperature, and the corresponding maximum true vapor pressure.

- (c) For vessels that store a liquid whose maximum true vapor pressure is less than 0.75 psia, maintain a record and notify the IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.

#### D.1.9 Reporting Requirements

For Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, the Permittee shall:

- (a) Furnish IDEM, OAQ with a report that describes the control equipment and certifies that the control equipment meets the specifications of Conditions D.1.2 and D.1.5. This report shall be an attachment to the notification required by 40 CFR 60.7(a)(3).
- (b) If any of the conditions described in Condition D.1.5(b) are detected during the annual visual inspection required by Condition D.1.5(b), a report shall be furnished to IDEM, OAQ within thirty (30) days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.
- (c) After each inspection required by Condition D.1.5(c) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in Condition D.1.5(b), a report shall be furnished to the IDEM, OAQ within thirty (30) days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of Conditions D.1.2 and D.1.5 and list each repair made.
- (d) Reports required in paragraphs (a) through (c) of this condition shall be submitted to the address listed in Section C - General Reporting Requirements.

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

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Citgo Petroleum Corporation - East Chicago Terminal  
Source Address: 2500 East Chicago Avenue, East Chicago, Indiana 46312  
Mailing Address: P.O. Box 178, East Chicago, Indiana 46312  
Part 70 Permit No.: T 089-17523-00307

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
Phone: 317-233-5674  
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Citgo Petroleum Corporation - East Chicago Terminal  
Source Address: 2500 East Chicago Avenue, East Chicago, Indiana 46312  
Mailing Address: P.O. Box 178, East Chicago, Indiana 46312  
Part 70 Permit No.: T 089-17523-00307

**This form consists of 2 pages**

**Page 1 of 2**

- |  |
|--|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none"><li><input type="checkbox"/> 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</li><li><input type="checkbox"/> 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.</li></ul> |
|--|

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

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

**PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Citgo Petroleum Corporation - East Chicago Terminal  
 Source Address: 2500 East Chicago Avenue, East Chicago, Indiana 46312  
 Mailing Address: P.O. Box 178, East Chicago, Indiana 46312  
 Part 70 Permit No.: T 089-17523-00307

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

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

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

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

**Source Background and Description**

<b>Source Name:</b>	<b>Citgo Petroleum Corporation - East Chicago Terminal</b>
<b>Source Location:</b>	<b>2500 East Chicago Avenue, East Chicago, Indiana 46312</b>
<b>County:</b>	<b>Lake</b>
<b>SIC Code:</b>	<b>5171</b>
<b>Operation Permit No.:</b>	<b>T 089-7566-00307</b>
<b>Operation Permit Issuance Date:</b>	<b>December 31, 1998</b>
<b>Permit Renewal No.:</b>	<b>T 089-17523-00307</b>
<b>Permit Reviewer:</b>	<b>Michael S. Schaffer</b>

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Citgo Petroleum Corporation – East Chicago Terminal relating to the operation of a bulk petroleum terminal.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) submerged bottom loading, tank truck loading rack, identified as LR1, constructed in 1985, equipped with two (2) loading arms with a total loading rate of 72,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 psia per hour, exhausting to Stack 80, capacity: 210,240,000 gallons of distillates and/or jet kerosene with a vapor pressure less than 0.75 per year.

**Tanks That Have Not Been Retrofitted With Internal Floating Roofs**

- (b) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 1 and 2, each constructed in 1948, storing distillates and/or jet kerosene less than 0.75, exhausting to Stacks 1 and 2, capacity: 5,880,000 gallons, each.
- (c) One (1) vertical fixed coned roof storage tank, identified as Tank 6, constructed in 1948, storing distillates and/or jet kerosene with a vapor pressure less than 0.75, exhausting to Stack 6, capacity: 5,040,000 gallons.
- (d) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 14 and 17, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75, exhausting to Stacks 14 and 17, capacity: 3,360,000 gallons each.
- (e) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 18 and 19, each constructed in 1940, storing distillates and/or jet kerosene with a vapor pressure less than 0.75, exhausting to Stacks 18 and 19, capacity: 3,360,000 gallons each.
- (f) Eleven (11) vertical fixed coned roof storage tanks, identified as Tanks 20 - 22, 25 - 28, 30 - 32, and 42, each constructed in 1928, storing distillates and/or jet kerosene with a vapor pressure less than 0.75, exhausting to Stacks 20 - 22, 25 - 28, 30 - 32, and 42, capacity: 2,310,000 gallons each.
- (g) One (1) vertical fixed coned roof storage tank, identified as Tank 36, constructed in 1953, storing distillates and/or jet kerosene with a vapor pressure less than 0.75, exhausting to Stack 36, capacity: 2,310,000 gallons.

### **Tanks That Have Been Retrofitted With Internal Floating Roofs**

- (h) One (1) vertical fixed coned roof, identified as Tank 3, constructed in 1948, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 3, capacity: 5,880,000 gallons.
- (i) Four (4) vertical fixed coned roof storage tanks, identified as Tanks 4, 5, 10, and 11, each constructed in 1954, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 4, 5, 10, and 11, capacity: 5,880,000 gallons, each.
- (j) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 7 and 57, each constructed in 1948, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 7 and 57, capacity: 5,040,000 gallons, each.
- (k) Two (2) vertical fixed coned roof storage tanks, identified as Tanks 8 and 9, each constructed in 1953, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 8 and 9, capacity: 5,880,000 gallons, each.
- (l) Seven (7) vertical fixed coned roof storage tanks, identified as Tanks 13, 15, 16, 52 - 54, and 59, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 13, 15, 16, and 52 - 54, and 59, capacity: 3,360,000 gallons, each.
- (m) Five (5) vertical fixed coned roof storage tanks, identified as Tanks 33, 34, and 39 - 41, each constructed in 1928, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 33, 34, and 39 - 41, capacity: 2,310,000 gallons, each.
- (n) One (1) vertical fixed coned roof storage tank, identified as Tank 35, constructed in 1954, later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 35, capacity: 2,310,000 gallons.
- (o) Three (3) vertical fixed coned roof storage tanks, identified as Tanks 37, 38, and 51, each constructed in 1955, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stacks 37, 38, and 51, capacity: 2,310,000 gallons, each.
- (p) One (1) vertical fixed coned roof storage tank, identified as Tank 43, constructed in 1942, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 43, capacity: 2,310,000 gallons.
- (q) One (1) vertical fixed coned roof, identified as Tank 44, constructed in 1943, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 44, capacity: 2,310,000 gallons.
- (r) One (1) vertical fixed coned roof in storage tank, identified as Tank 45, constructed in 1945, later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 45, capacity: 2,310,000 gallons.
- (s) Two (2) vertical fixed coned roof storage tank, identified as Tanks 46 and 48, each constructed in 1951, each later retrofitted with an internal floating roof, storing gasoline, distillates and/or jet kerosene, exhausting to Stack 46 and 48, capacity: 2,310,000 gallons,

each.

- (t) One (1) vertical fixed coned roof storage tank, identified as Tank 47, constructed in 1952, later retrofitted with an internal floating roof storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 47, capacity: 2,310,000 gallons, each.
- (u) One (1) vertical fixed coned roof storage tank, identified as Tank 55, constructed in 1937, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 55, capacity: 5,670,000 gallons.
- (v) One (1) vertical fixed coned roof storage tanks, identified as Tank 56, constructed in 1940, later retrofitted with an internal floating roof storing gasoline, distillates and/or jet kerosene, exhausting to Stack 56, capacity: 3,360,000 gallons.
- (w) One (1) vertical fixed coned roof storage tank, identified as Tank 58, constructed in 1948, later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 58, capacity: 5,355,000 gallons.
- (x) One (1) vertical fixed coned roof storage tank, identified as Tank 88, constructed in 1935, each later retrofitted with an internal floating roof, storing gasoline, distillates, and/or jet kerosene, exhausting to Stack 88, capacity: 420,000 gallons.

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

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

#### **New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval**

There are no proposed emission units 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) Propane for liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour, consisting of the following:
  - (1) One (1) propane-fired furnace rated at 0.100 million British thermal units per hour;
  - (2) One (1) propane-fired hot water heater rated at 0.035 million British thermal units per hour, and
  - (3) Four (4) propane-fired heaters rated at 0.100 million British thermal units per hour, each.
- (b) VOC and HAPs storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (c) Rolling oil recovery systems.
- (d) Process vessel degassing and cleaning to prepare for internal repairs.

- (e) Paved and unpaved roads.
- (f) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (g) On-site fire and emergency response training approved by the department.
- (h) Other emergency equipment such as stationary fire pumps.

### Existing Approvals

The source has been operating under the following previous approvals:

- (a) Part 70 Operating Permit T 089-7566-00307, issued on December 31, 1998;
- (b) First Administrative Amendment AAT 089-14625-00307, issued on August 24, 2001; and
- (c) First Reopening R 089-13363-00307, issued on December 5, 2001.

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

The following terms and conditions from previous approvals have been revised in this Part 70 Operating Permit:

T 089-7566-00307, issued on December 31, 1998:

#### Condition C.18 (Emission Statement)

Revisions will be made to the Emission Statement condition to incorporate the revisions to 326 IAC 2-6 that became effective March 27, 2004. The revised rule was published in the April 1, 2004 Indiana Register. Since this source in Lake County has a potential to emit VOC greater than twenty-five (25) tons per year, but less two hundred fifty (250) tons per year, pursuant to the revised rule, this source will be required to submit an emission statement triennially starting July 1, 2007. See the State Rule Applicability – Entire Source section of this document for further details.

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

T 089-7566-00307, issued on December 31, 1998:

- (a) Condition C.7 (Fugitive Dust Emissions [326 IAC 6-1.11-1])

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

Reason not incorporated: The potential to emit fugitive particulate matter from the entire source is less than a total of five (5) tons per year. Therefore, the requirements of 326 IAC 6-1.11-1 are not applicable.

- (b) Condition D.1.1(2),(3),(4) - Specifications for the operation of external floating roof tanks, closed vent systems, or alternative VOC control measures in accordance with 40 CFR 60.112b or 62.114b, Subpart Kb.

Reason not incorporated: There are no external floating roof tanks that are currently in operation at this source. In addition, this source does not use closed vent systems or alternative control measures. Therefore, the specifications for operating external floating roof tanks and closed vent systems in accordance with 40 CFR 60.112b and the specifications for using alternative control measures in accordance with 40 CFR 60.114b are not applicable to this source.

- (c) Condition D.1.2 - Standards for Volatile Organic Liquid Storage Vessels in accordance with 326 IAC 8-9-4.

Reason not incorporated: Even though this source is located in Lake County, this source is not subject to the requirements of 326 IAC 8-9-2 through 8-9-5 because:

- (1) Pursuant to 326 IAC 8-9-1(c), any vessel which with a capacity equal to or greater than 39,000 gallons, but stores a Volatile Organic Liquid (VOL) with a maximum true vapor pressure of greater than or equal to five-tenths (0.5) pounds per square inch absolute (psia), but less than seventy-five hundredths (0.75) psia is exempt from all of the requirements of 326 IAC 8-9, except for 326 IAC 8-9-6(a), (b), (g), and (h); and
- (2) Pursuant to 326 IAC 8-9-2(8), each vessel that is subject to the requirements of 40 CFR 60, Subpart Kb is exempt from the requirements of 326 IAC 8-9.

Each tank at this source is either subject to the requirements of 40 CFR 60, Subpart Kb or stores VOL with a maximum true vapor pressure of that is no more than 0.75 psia.

- (d) Condition D.1.3 - Volatile Organic Compounds (VOC) requirements in accordance with 326 IAC 8-9-4(b).

Reason not incorporated: The requirements of 326 IAC 8-9-4 do not apply to this source. See explanation in paragraph (c) above.

- (e) Condition D.1.4(b) - The requirements for external floating roof tanks in accordance with 326 IAC 8-4-3.

Reason not incorporated: There are no external floating roof tanks that are currently in operation at this source. Therefore, the requirements for external floating roof tanks that are listed in 326 IAC 8-4-3 are not applicable to the tanks at this source.

- (f) Condition D.1.10(c) - The record keeping requirements of 40 CFR 63.428(j), Subpart R that were made applicable to this source.

Reason not incorporated: Pursuant to 326 IAC 14, 40 CFR 63.420(a)(2), the requirements of 40 CFR 63, Subpart R are not applicable to the tanks at this source because this source is not and never has been a major source of HAPs.

### Enforcement Issue

There are no enforcement actions pending.

**Recommendation**

The staff recommends to the Commissioner that the Part 70 Operating Permit 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 Part 70 Operating Permit renewal application for the purposes of this review was received on March 14, 2003. Additional information was received on November 4, 2004 and January 31, 2005.

**Emission Calculations**

See Pages 1 through 6 of 6 in Appendix A of this document for detailed emission calculations.

**Potential to Emit of the Source**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA.”

The source was issued a Part 70 Operating Permit on December 1, 1999. 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 the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential To Emit (tons/yr)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Storage Tanks	-	-	-	208			Single 3.55 Total 11.2
Loading Rack LR1	-	-	-	1.21	-	-	Single 0.037 Total 0.095
Fugitive Emissions (pipes, valves, flanges, and unpaved roads)	0.605	0.139	-	1.22	-	-	Single 0.156 Total 0.245
Non Fugitive Insignificant Activities	0.010	0.010	0.004	0.013	0.049	0.359	-
Total Emissions	0.615	0.149	0.004	210	0.049	0.359	Single 3.63 Total 11.6

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of VOC is equal to or greater than 25 tons per year in Lake County. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions  
 Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Note that this source operates as one of the twenty-eight (28) listed source categories under 326 IAC 2-2 because the terminal-wide storage capacity is greater than 300,000 barrels of petroleum products.

**Actual Emissions**

The following table shows the actual emissions from the source. This information reflects the 2001 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	-
PM <sub>10</sub>	-
SO <sub>2</sub>	-
VOC	142
CO	-
NO <sub>x</sub>	-
HAP (specify)	-

**County Attainment Status**

The source is located in Lake County.

Pollutant	Status
PM <sub>2.5</sub>	Nonattainment
PM <sub>10</sub>	Attainment
SO <sub>2</sub>	Nonattainment
NO <sub>2</sub>	Attainment
1-Hour Ozone	Severe Nonattainment
8-Hour Ozone	Moderate Nonattainment
CO	Nonattainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
  - (1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO<sub>x</sub> threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability - Entire Source section of this document.
  - (2) VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for nonattainment new source review. See the State Rule Applicability - Entire Source section of this document.
- (b) U.S. EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM<sub>10</sub> emissions as surrogate for PM<sub>2.5</sub> emissions pursuant to the Nonattainment New Source Review requirements. See the State Rule Applicability for the source section.
- (c) Lake County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, NO<sub>2</sub>, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (d) Lake County has been classified as nonattainment in Indiana for SO<sub>2</sub> and CO. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability - Entire Source section of this document.

#### **Part 70 Operating Permit Conditions**

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

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 Operating Permits.
- (b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

#### **Federal Rule Applicability**

- (a) This source does involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 that has the potential to emit before controls equal to or greater than the major source threshold for VOC, and is subject to an emission limitation or standard for that VOC.

However, the emission unit does not use a control device as defined in 40 CFR Part 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

- (b) The nineteen (19) distillate and/or jet kerosene storage tanks, identified as Tanks 1, 2, 6, 14, 17 - 19, 20 - 22, 25 - 28, 30 - 32, 36, and 42 are not subject to the requirements of the New Source Performance Standards, 326 IAC 12 (40 CFR 60 Subparts K, Ka, and Kb), since each tank was constructed prior to June 11, 1973 and was not later reconstructed or modified.
- (c) The source has elected to comply with the current New Source Performance Standard for the thirty-five (35) gasoline, distillate and/or jet kerosene storage tanks, identified as Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, which each have been retrofitted with an internal floating roof and have a design capacity that is greater than or equal to 151 m<sup>3</sup> and contain a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa.

Note that NSPS Subpart Kb applies to storage tanks that were retrofitted with internal floating roofs after July 23, 1984 and meet the criteria in the paragraph above. Since the dates that Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, were retrofitted with internal floating roofs cannot be entirely specified by Citgo Petroleum Corporation, the source has requested that only the requirements of the current NSPS apply to Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, as part of this permit renewal.

Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, shall comply with NSPS, 326 IAC 12, and (40 CFR 60.110b through 117b, Subpart Kb), as follows:

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

#### **40 CFR 60.112b(a)(1) - Standard for Volatile Organic Compounds**

The Permittee of Tanks 3 Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, which each have design capacity greater than or equal to 151 m<sup>3</sup> and contain a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa shall equip each storage vessel with the following:

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

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

- (A) A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
  - (B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
  - (C) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- (3) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.
  - (4) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.
  - (5) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
  - (6) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
  - (7) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
  - (8) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.
  - (9) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

#### **40 CFR 60.113b Testing and Procedures**

The Permittee of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, as specified in 40 CFR 60.112b(a)(1) shall meet the following requirements:

After installing the control equipment required to meet 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), the Permittee shall:

- (1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.
- (2) For vessels equipped with a liquid-mounted or mechanical shoe primary secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every twelve (12) months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within forty-five (45) days. If a failure that is detected during inspections required in this paragraph cannot be repaired within forty-five (45) days and if the vessel cannot be emptied within forty-five (45) days, a thirty (30) day extension may be requested from IDEM, OAQ in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.
- (3) For vessels equipped with a double-seal system as specified in 40 CFR 60.112b (a)(1)(ii)(B):
  - (i) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(4) at least every five (5) years; or
  - (ii) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(2).
- (4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than ten (10) years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than five (5) years in the case of vessels specified in 40 CFR 60.113b (a)(3)(i).
- (5) Notify IDEM, OAQ in writing at least thirty (30) days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b (a)(1) and (a)(4) to afford IDEM OAQ and U.S. EPA the opportunity to have an observer present. If the inspection required by 40 CFR 60.113b(a)(4) of this section is not planned and the owner or operator could not have known about the inspection thirty (30) days in advance or refilling the tank, the owner or operator shall notify IDEM, OAQ at least seven (7) days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by IDEM, OAQ at least seven (7) days

prior to the refilling.

#### **40 CFR 60.115b(a) Reporting and Recordkeeping Requirements**

After installing control equipment in accordance with 40 CFR 60.112b(a)(1) (fixed roof and internal floating roof), the Permittee shall meet the following requirements.

- (1) Furnish IDEM, OAQ with a report that describes the control equipment and certifies that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 40 CFR 60.113b(a)(1). This report shall be an attachment to the notification required by 40 CFR 60.7(a)(3).
- (2) Keep a record of each inspection performed as required by 40 CFR 60.113b (a) (1), (a)(2), (a)(3), and (a)(4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).
- (3) If any of the conditions described in 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), a report shall be furnished to IDEM, OAQ within thirty (30) days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.
- (4) After each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii), a report shall be furnished to the IDEM, OAQ within thirty (30) days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made.

#### **40 CFR 60.116b(a),(b),(c), and (d) Monitoring of Operations**

Pursuant to 40 CFR 63.116b(a), the Permittee shall keep copies of all records required by 40 CFR 60.116b, except for the record required by 40 CFR 60.116b(b) for at least two (2) years. The record required by 40 CFR 60.116b(b) will be kept for the life of the source.

Pursuant to 40 CFR 63.116b(b), the Permittee of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, shall keep readily accessible records showing the dimension of each storage vessel and an analysis showing the capacity of each storage vessel.

Pursuant to 40 CFR 63.116b(c), the Permittee of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, which each have design capacity greater than or equal to 151 m<sup>3</sup> and contain a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

Pursuant to 40 CFR 60.116b(d), the Permittee of Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, which each have design capacity greater than or equal to 151 m<sup>3</sup> and contain a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa but less than 76.6 kPa shall notify IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor vapor pressure values for each volume range.

Pursuant to 40 CFR 63.116b(e), available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

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

Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see 40 CFR 60.17), unless the IDEM, OAQ specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

- (d) Loading Rack LR1 is not subject to the requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subpart XX), because loading rack LR1 does not load and unload gasoline to and from gasoline storage tanks.
- (e) The storage tanks at this source are not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), Subpart R because, pursuant to 40 CFR 63.420(a)(2), the requirements of NESHAP Subpart R are not applicable to tanks at a source that is not a major source of HAPs.

#### **State Rule Applicability – Entire Source**

##### 326 IAC 2-3 (Emission Offset)

- (a) The unrestricted potential VOC emissions from the entire source, which is one of the 28 listed sources and is located in Lake County are greater than one hundred (100) tons per year. Therefore, this source is a major source pursuant to 326 2-3 (Emission Offset).
- (b) Each storage tank at this source was installed prior to August 7, 1980. In addition, any modification that was made to a storage tank after August 7, 1980 were considered a minor modifications under Emission Offset Rules because the increase in VOC emissions were below Emission Offset significant levels.
- (c) The construction loading rack, constructed in 1985 was considered a minor modification to an existing major source because the increase in VOC emissions was also below Emissions Offset significant levels.

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

All of the emission units at this source were constructed prior July 27, 1997. Furthermore, this source is not a major source of HAPs. Therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

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

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. In addition, this source is located in Lake County and the potential to emit VOC from the entire source is greater than twenty-five (25) tons per year, but less than two hundred fifty (250) tons per year.

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

- (a) starting in 2007 and every three (3) years thereafter, and
- (b) any year not already required under paragraph (a) if the source emits VOC or NO<sub>x</sub> into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.

The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c).

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

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

This source is located in Lake County and has the potential to emit fugitive particulate matter of less than five (5) tons per year. Therefore, the requirements of 326 IAC 6-1-11.1 are not applicable to this source.

#### 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

#### 326 IAC 6-5 (Fugitive Particulate Matter Emissions Limitations)

The potential to emit of fugitive particulate matter from the entire source is less than twenty-five (25) tons per year. Therefore, pursuant to 326 IAC 6-5-1(a), the requirements of 326 IAC 6-5 do not apply.

### State Rule Applicability – Individual Facilities

#### 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

This rule does not apply because no facility has the potential to emit greater than ten (10) pounds of SO<sub>2</sub> per hour or twenty-five (25) tons of SO<sub>2</sub> per year.

#### 326 IAC 7-4-1.1 (Sulfur Dioxide Emission Limitations: Lake County)

This rule does not apply because no facility has the potential to emit greater than ten (10) pounds of SO<sub>2</sub> per hour or twenty-five (25) tons of SO<sub>2</sub> per year.

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

- (a) Pursuant to 326 IAC 8-4-3(a), Tanks 1, 2, 6, 14, 17 - 19, 20 - 22, 25 - 28, 30 - 32, 36, and 42 are not subject to requirements of 326 IAC 8-4-3 since each tanks does not store a liquid that contains volatile organic compounds whose true vapor pressure is greater than 10.5 kPa (1.52 psi).
- (b) Pursuant to 326 IAC 8-4-3(a), Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, are subject to the requirements of 326 IAC 8-4-3 since these tanks are petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (thirty-nine thousand (39,000) gallons) containing volatile organic compounds whose true vapor pressure is greater than 10.5 kPa (1.52 psi) and the source is located in Lake County.
- (c) Pursuant to 326 IAC 8-4-3(b)(1), External Fixed Roof Tanks, no Permittee of an affected fixed roof tank shall permit the use of such facility unless:
  - (1) The facility has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall unless the source has been retrofitted with equally effective alternative control which has been approved.
  - (2) The facility is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials.
  - (3) All openings, except stub drains, are equipped with covers, lids, or seals such that:
    - (A) The cover, lid, or seal is in the closed position at all times except when in actual use;
    - (B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
    - (C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting.

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

- (a) Pursuant to 326 IAC 8-9-1(c), stationary vessels, located in Lake County with a capacity equal to or greater than thirty-nine thousand (39,000) gallons that store a VOL with a maximum true vapor pressure equal to or greater than five-tenths (0.5) pound per square inch absolute (psia) but less than seventy-five hundredths (0.75) psia are subject to the

provisions of 326 IAC 8-9-6(a), (b), (g), and (h) and are exempt from all other provisions 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels).

Therefore, based on the requirements 326 IAC 8-9-1(c), Tanks 1, 2, 6, 14, 17 - 19, 20 - 22, 25 - 28, 30 - 32, 36, and 42, must comply with the following since each tank stores a liquid that contains volatile organic compounds whose maximum true vapor pressure is no more than 0.75 psia.

- (1) The Permittee of each vessel subject to this rule shall keep all records required by this section for three (3) years unless specified otherwise.
- (2) The Permittee of each vessel to which 326 IAC 8-9-1 of this rule applies shall maintain a record and submit to the IDEM, OAQ a report containing the following information for each vessel:
  - (A) The vessel identification number;
  - (B) The vessel dimensions; and
  - (C) The vessel capacity.

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

- (3) The Permittee of each vessel either with a design capacity greater than or equal to thirty-nine thousand (39,000) gallons storing a VOL with a maximum true vapor pressure greater than or equal to five-tenths (0.5) pound per square inch absolute (psia) but less than seventy-five hundredths (0.75) psia shall maintain a record of the maximum true vapor pressure of the VOL stored in each vessel. The record for each vessel shall contain the following information:
    - (A) The type of VOL stored;
    - (B) The dates of the VOL storage; and
    - (C) For each day of VOL storage, the average stored temperature for VOLs stored above or below the ambient temperature or average ambient temperature for VOLs stored at ambient temperature, and the corresponding maximum true vapor pressure.
  - (4) The Permittee of each vessel with a design capacity greater than or equal to thirty-nine thousand (39,000) gallons storing a liquid with a maximum true vapor pressure that is normally less than seventy-five hundredths (0.75) psia shall maintain a record and notify the IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds seventy-five hundredths (0.75) psia.
- (b) Pursuant to 326 IAC 8-9-2(8), Tanks 3 - 5, 7 - 11, 13, 15, 16, 34, 35, 37 - 41, 43 - 48, 51 - 59 and 88, are exempt from the requirements of 326 IAC 8-9 because each tank shall be made subject to a provision of NSPS Subpart Kb.

### Testing Requirements

Compliance with the NSPS Subpart Kb can be demonstrated through the non-testing compliance determination requirements as well as record keeping and reporting requirements that are required in NSPS Subpart Kb. In addition, there are no VOC emission limitations that are applicable to any emission unit at this source. Therefore, no stack testing will be required in this permit

renewal.

## Compliance Requirements

Permits issued under 326 IAC 2-7 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 2-7-5. 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 in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

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

Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, have applicable compliance monitoring conditions as specified below:

- (a) For Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, the Permittee shall:
  - (1) Keep copies of all records required by 40 CFR 60.116b, except for the record required by 40 CFR 60.116b(b) for at least two (2) years.
  - (2) Keep readily accessible records showing the dimension of each storage vessel and an analysis showing the capacity of each storage vessel. These records shall be kept for the life of the source.
  - (3) Maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
  - (4) Notify IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.
- (b) Pursuant to 40 CFR 63.116b(e), available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.
  - (1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.
  - (2) For refined petroleum products the vapor pressure may be obtained by the following:

Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see 40 CFR 60.17), unless IDEM, OAQ specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

These monitoring conditions are necessary because Tanks 3 - 5, 7 - 11, 13, 15, 16, 33 - 35, 37 - 41, 43 - 48, 51 - 59 and 88, must operate properly to ensure compliance with NSPS, Subpart Kb and 326 IAC 2-7 (Part 70).

### **Conclusion**

The operation of this bulk petroleum terminal shall be subject to the conditions of this Part 70 Operating Permit Renewal T 089-17523-00307.

**Appendix A: Emissions Calculations  
VOC Emissions  
From Storage Tanks**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
**Address City IN Zip:** 2500 East Chicago Avenue, East Chicago, Indiana 46312  
**Permit Number:** T 089-17523  
**Plt ID:** 089-00307  
**Reviewer:** Michael S. Schaffer  
**Application Date:** March 14, 2003

**Tank Capacity**

Tank #	capacity (gallons)	capacity (barrels)
1	5880000	140003
2	5880000	140003
3	5880000	140003
4	5880000	140003
5	5880000	140003
6	5040000	120002
7	5040000	120002
8	5880000	140003
9	5880000	140003
10	5880000	140003
11	5880000	140003
13	3360000	80002
14	3360000	80002
15	3360000	80002
16	3360000	80002
17	3360000	80002
18	3360000	80002
19	3360000	80002
20	2310000	55001
21	2310000	55001
22	2310000	55001
25	2310000	55001
26	2310000	55001
27	2310000	55001
28	2310000	55001
30	2310000	55001
31	2310000	55001
32	2310000	55001
33	2310000	55001
34	2310000	55001
35	2310000	55001
36	2310000	55001
37	2310000	55001
38	2310000	55001
39	2310000	55001
40	2310000	55001
41	2310000	55001
42	2310000	55001
43	2310000	55001
44	2310000	55001
45	2310000	55001
46	2310000	55001
47	2310000	55001
48	2310000	55001
51	2310000	55001
52	3360000	80002
53	3360000	80002
54	3360000	80002
55	5670000	135003
56	3360000	80002
57	5040000	120002
58	5355000	127503
59	3360000	80002
88	420000	10000
<b>Total:</b>	<b>182175000</b>	<b>4337587</b>

**VOC Emissions**

Tank #	Potential to Emit VOC (lbs/year)	Potential to Emit VOC (tons/year)
1	3329	1.66
2	3338	1.67
3	14959	7.48
4	14959	7.48
5	14959	7.48
6	2896	1.45
7	13442	6.72
8	14959	7.48
9	14961	7.48
10	14958	7.48
11	14959	7.48
13	11165	5.58
14	1890	0.95
15	11165	5.582
16	11168.42	5.584
17	1911.26	0.956
18	1911.26	0.956
19	1920.24	0.960
20	1296.03	0.648
21	1289.99	0.645
22	1283.27	0.642
25	1296.03	0.648
26	1296.03	0.648
27	1293.86	0.647
28	1297.97	0.649
30	1297.97	0.649
31	1291.93	0.646
32	1297.97	0.649
33	8739.77	4.370
34	8740.88	4.370
35	9118.37	4.559
36	1340.56	0.670
37	9115.67	4.558
38	9117.22	4.559
39	8738.33	4.369
40	8738.33	4.369
41	8737.54	4.369
42	1297.97	0.649
43	9114.61	4.557
44	8429.33	4.215
45	9117.70	4.559
46	9115.99	4.558
47	5116.45	2.558
48	9117.36	4.559
51	9116.33	4.558
52	11167.06	5.584
53	11166.28	5.583
54	11168.14	5.584
55	14948.93	7.474
56	11164.68	5.582
57	13440.97	6.720
58	13448.29	6.724
59	11172.12	5.586
88	3493.62	1.747
<b>Total:</b>	<b>415773</b>	<b>208</b>

Capacity (barrels) = Capacity (gallons) \* (0.02381 barrels/gallon)

Note: The worst case product stored in Tanks 1, 2, 6, 14, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 30, 31, 32, 36, and 42 is Jet Kerosene and the worst case product stored in Tanks 3, 4, 5, 7, 8, 9, 10, 11, 13, 15, 16, 33, 34, 35, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59 and 88 is Gasoline RVP 11.5

METHODOLOGY FOR TANKS: Tanks 4.0

METHODOLOGY FOR LOADING RACK: See Page 3

**Appendix A: Emissions Calculations  
HAPs Emissions  
From Storage Tanks**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
**Address City IN Zip:** 2500 East Chicago Avenue, East Chicago, Indiana 46312  
**Permit Number:** T 089-17523  
**Plt ID:** 089-00307  
**Reviewer:** Michael S. Schaffer  
**Application Date:** March 14, 2003

**Gasoline HAP Emissions**

HAP	Worst Case Weight % in gasoline vapor	Potential to Emit VOC from Gasoline (tanks only) (lbs/yr)	HAP Emissions from Gasoline (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)
2,2,4- Trimethylpent.	0.800%	384888	3079.1	1.540
Benzene	0.900%	384888	3464.0	1.732
Ethylbenzene	0.100%	384888	384.89	0.192
n-Hexane	1.60%	384888	6158.2	3.079
Toluene	1.30%	384888	5003.5	2.502
Xylenes	0.500%	384888	1924.4	0.962
<b>Subtotal HAPs:</b>				<b>10.0</b>

**Jet Kerosene HAP Emissions**

HAP	Worst Case Weight % in No. 2 Distillate vapor	Potential to Emit VOC from No. 2 Distillate (tanks only) (lbs/yr)	HAP Emissions from No. 2 Distillate (lbs/yr)	Worst Case HAP Emissions (tanks only) (tons/yr)
Cumene	0.600%	30885	185.3	0.093
Benzene	1.32%	30885	407.7	0.204
Ethylbenzene	0.360%	30885	111.2	0.056
n-Hexane	3.04%	30885	938.91	0.469
Toluene	1.65%	30885	510	0.255
Xylenes	1.41%	30885	435	0.218
<b>Subtotal HAPs:</b>				<b>1.29</b>
<b>Total HAPs from Tanks (tons/yr):</b>				<b>11.3</b>

**Methodology**

HAP % \* VOC Emissions (lbs/yr) = HAPs Emissions (lbs/yr) / (2000lbs/ton) = HAPs Emission (tons/yr)

**Appendix A: Emissions Calculations  
VOC Emissions  
From Loading Rack and Fugitives**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
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**Loading Rack (LR1) "Worst Case" Potential VOC Emissions**

Fugitive Source	Jet Kerosene Emission Factor (lbs/1000gal)	Maximum Annual Throughput (gallons)	VOC Emissions (lbs/yr)	VOC Emissions (tons/yr)
Loading Rack	0.0115	210240000	2418	1.21

Note that "Worst Case" VOC emissions are based on the Maximum Pipeline Throughput using Jet Kerosene and unload at this source via underground pipeline

**Methodology**

Emission Factor is based on the equation  $L = 12.46 \text{ SPM} / T$  from (AP-42 page 5.2-4)

L=Loading Loss, S = a saturation factor which is based on Jet Kerosene loading with a submerged dedicated norm Service, P=True Vapor Pressure, T = Temperature of Bulk liquid loaded

"Worst Case" Loading Rack product is Jet Kerosene @ 50 degrees F (AP-42 table 7.1-2)

(Emission Factor (lbs/1000gal) \* Annual Throughput (gallons)) / 1000 gallons = Emissions (lbs/yr) / 2000 (lbs/ton) = Emissions (tons/yr)

Maximum Annual Throughput (gallons/yr) = 210,240,000 gallons per year which is the maximum amount of Jet Kerosene and/or distillates that can be delivered to the source at Loading Rack (LR1).

**Potential HAP Emissions After Limitations**

HAP	Worst Case Weight % in Jet Kerosene Vapor	Amount of "Worst Case" VOC Emissions From Jet Kerosene Vapor (lbs/yr)	Amount of "Worst Case" HAPs Emissions From Jet Kerosene Vapor (lbs/yr)	Amount of "Worst Case" HAPs Emissions From Jet Kerosene Vapor (tons/yr)
Cumene	0.600%	2418	14.51	0.007
Benzene	1.32%	2418	31.9	0.016
Ethylbenzene	0.360%	2418	8.70	0.004
n-Hexane	3.04%	2418	73.5	0.037
Toluene	1.65%	2418	39.9	0.020
Xylenes	1.41%	2418	34.1	0.017
<b>Total HAPs:</b>			<b>203</b>	<b>0.101</b>

**Flanges, Pumps, Valves, Potential to Emit**

Fugitive Source	Emission Factor (lbs/hr)	Number Leaking	Fugitive Emissions (lbs/hr)	Fugitive Emissions (tons/yr)
Valves	0.00015	1071	0.161	0.704
Flanges	0.00002	4072.0	0.081	0.357
Pump Seals	0.001	26.0	0.026	0.114
<b>Total VOC:</b>			<b>0.268</b>	<b>1.17</b>



**Appendix A: Emission Calculations  
Propane - Small Heaters**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
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**Insignificant propane combustion heaters rated at 0.535 MMBtu/hr total**

Heat Input Capacity                      Potential Throughput                      SO<sub>2</sub> Emission factor = 0.10 x S  
 MMBtu/hr                                      kgals/year                      S = Sulfur Content = 1.50 grains/100ft<sup>3</sup>

0.535

51.22

	Pollutant					
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factor in lb/kgal	0.4	0.4	0.2 (0.10S)	14.0	0.5 **TOC value	1.9
Potential Emission in tons/yr	0.010	0.010	0.004	0.359	0.013	0.049

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

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

**Methodology**

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

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

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

Emission Factors are from AP42 (Supplement B 10/96), Table 1.5-1 (SCC #1-03-010-02)

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

**Appendix A: Emission Calculations  
Unpaved Roads**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
**Address City IN Zip:** 2500 East Chicago Avenue, East Chicago, Indiana 46312  
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\*\* unpaved roads \*\*

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (12/2003).

$$0.042 \text{ trip/hr} \times 1.03 \text{ mile/trip} \times 2 \text{ (round trip)} \times 8760 \text{ hr/yr} = 757.915 \text{ miles per year}$$

**PM Emissions**

$$E_f = [k \cdot \left(\frac{s}{12}\right)^1 \cdot \left(\frac{S}{30}\right)^d / \left(\frac{M}{0.5}\right)^c] - C$$

$$= 2.43 \text{ lb/mile}$$

- where k = 6 particle size multiplier for PM-30 or TSP
- s = 4.8 mean % silt content of unpaved roads
- c = 0.3 c = Constant for PM-30 or TSP
- d = 0.3 d = Constant for PM-30 or TSP
- S = 12.5 Mean vehicle speed (mph)
- M = 0.2 Surface material moisture content, % (default is 0.2 for dry conditions)
- C = 0.00047 PM-30 or TSP emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear

$$E = \frac{2.43 \text{ lb/mi} \times 757.915 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.921 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot [(365-p)/365] = 0.605 \text{ tons/yr}$$

where p = 125 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

**PM-10 Emissions**

$$E_f = [k \cdot \left(\frac{s}{12}\right)^1 \cdot \left(\frac{S}{30}\right)^d / \left(\frac{M}{0.5}\right)^c] - C$$

$$= 0.56 \text{ lb/mile}$$

- where k = 1.8 (particle size multiplier for F (k=6.0 for PM-30 or TSP))
- s = 4.8 mean % silt content of unpaved roads
- c = 0.2 c = Constant for PM-10
- d = 0.5 d = Constant for PM-10
- S = 12.5 Mean vehicle speed (mph)
- M = 0.2 Surface material moisture content, % (default is 0.2 for dry conditions)
- C = 0.00047 PM-10 emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear

$$E = \frac{0.56 \text{ lb/mi} \times 757.915 \text{ mi/yr}}{2000 \text{ lb/ton}} = 0.211 \text{ tons/yr}$$

Taking natural mitigation due to precipitation into consideration:

$$E_{ext} = E \cdot [(365-p)/365] = 0.139 \text{ tons/yr}$$

where  $p =$  125 days of rain greater than or equal to 0.01 inches(see Fig. 13.2.2-1)

**Appendix A: Emission Calculations  
Emissions Summary**

**Company Name:** Citgo Petroleum Corporation - East Chicago Terminal  
**Address City IN Zip:** 2500 East Chicago Avenue, East Chicago, Indiana 46312  
**Permit Number:** T 089-17523  
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**Source-wide Potential to Emit**

Pollutant	Potential to Emit From Storage Tanks (tons/yr)	Potential to Emit From Loading Rack (tons/yr)	Potential to emit From Fugitives (tons/yr)	Potential to Emit From Insignificant Combustion (tons/yr)	Potential to Emit From Entire Source (tons/yr)
PM	0.00	0.000	0.605	0.010	<b>0.615</b>
PM-10	0.00	0.000	0.139	0.010	<b>0.149</b>
SO2	0.00	0.000	0.000	0.004	<b>0.004</b>
VOC	208	1.21	1.22	0.013	<b>210</b>
NOx	0.00	0.000	0.000	0.359	<b>0.359</b>
CO	0.00	0.000	0.000	0.049	<b>0.049</b>
2,2,4-Trimethylpentane	1.54	0.000	0.000	0.000	<b>1.54</b>
Cumene	0.009	0.001	0.007	0.000	<b>0.017</b>
Benzene	1.94	0.016	0.156	0.000	<b>2.11</b>
Ethylbenzene	0.258	0.004	0.004	0.000	<b>0.266</b>
n-Hexane	3.55	0.037	0.041	0.000	<b>3.63</b>
Toluene	2.76	0.020	0.020	0.000	<b>2.80</b>
Xylenes	1.18	0.017	0.017	0.000	<b>1.21</b>
Total HAPs	11.2	0.095	0.245	0.000	<b>11.6</b>

Note that Fugitive HAPs emissions are as estimated by the source.