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ISSUE DATE

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
(xxxx xxxx xxxx xxxx xxxx)

10-XXXE CAB
File No. 0080

Mr. James Dupree
Terminal Manager
Chevron Products Company
260 Aka'ula Road (A & B Road)
Eleele, Hawaii 96705

Dear Mr. Dupree:

Subject: Covered Source Permit (CSP) No. 0080-01-C
Renewal Application No. 0080-07
Chevron Products Company
Port Allen Marketing Terminal
Located at: 260 Aka'ula Road (A & B Road), Eleele, Kauai
Date of Expiration: 5 Years From Issue

The subject covered source permit is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this permit renewal is based on the plans, specifications, and information that you submitted as part of your application received on May 22, 2008, and the additional information received as part of your application on September 30, and October 28, 2009, and March 3, 2010. The conditions of this permit renewal supersede all conditions contained in all prior permits.

Attachments IIA, IIB, and IIC of this permit are applicable by January 10, 2011. On January 10, 2011, Attachment IID will partially supersede Attachment IIB for Tank Nos. 2 and 4. Attachment IID will still apply to Tank Nos. 1, 5, and 12, on and after January 10, 2011. Also, on January 10, 2011, Attachment IIC of this permit will supersede Attachment IIE for the bottom loading load rack.

The covered source permit is issued subject to the conditions/requirements set forth in the following attachments:

Attachment I:	Standard Conditions
Attachment IIA:	Special Conditions (by January 10, 2011) – Equipment in Gasoline Service
Attachment IIB:	Special Conditions (by January 10, 2011) – Storage Tanks
Attachment IIC:	Special Conditions (by January 10, 2011) – Bottom Loading Load Rack
Attachment IID:	Special Conditions – Storage Tanks

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Attachment IIE: Special Conditions – Bottom Loading Load Rack
Attachment II – INSIG: Special Conditions – Insignificant Activities
Attachment III: Annual Fee Requirements
Attachment IV: Annual Emissions Reporting Requirements

The following forms are enclosed for your use and submittal as required:

Compliance Certification Form
Annual Emissions Report Form – Storage Tanks
Annual Emissions Report Form – Bottom Loading Load Rack
Monitoring Report Form – Equipment Leaks (by January 10, 2011)
Monitoring Report Form – Storage Tanks
Monitoring Report Form – Bottom Loading Load Rack
Monitoring Report Form – Opacity Exceedances
Excess Emissions Report Form – Equipment Leaks (by January 10, 2011)
Excess Emissions Report Form – Bottom Loading Load Rack (by January 10, 2011)

Enclosed are the following for use in monitoring visible emissions:

Visible Emissions Form Requirements State of Hawaii
Visible Emissions Form – Vapor Combustion Unit
The Ringelmann Chart

This permit: (a) shall not in any manner affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment; and (c) in no manner implies or suggests that the Hawaii Department of Health, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the equipment.

Sincerely,

STEVE CHANG, P.E., ACTING CHIEF
Environmental Management Division

MM:nn
Enclosures

c: Todd Osterberg, HES Specialist, Chevron Products Company
Rodney Yama, EHS - Kauai
CAB Monitoring Section

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ATTACHMENT I: STANDARD CONDITIONS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

This permit is granted in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and is subject to the following standard conditions:

1. Unless specifically identified, the terms and conditions contained in this permit are consistent with the applicable requirement, including form, on which each term or condition is based.

   (Auth.: HAR §11-60.1-90)

2. This permit, or a copy thereof, shall be maintained at or near the source and shall be made available for inspection upon request. The permit shall not be willfully defaced, altered, forged, counterfeited, or falsified.

   (Auth.: HAR §11-60.1-6; SIP §11-60-11)[2]

3. This permit is not transferable whether by operation of law or otherwise, from person to person, from place to place, or from one piece of equipment to another without the approval of the Department of Health, except as provided in HAR, Section 11-60.1-91.

   (Auth.: HAR §11-60.1-7; SIP §11-60-9)[2]

4. A request for transfer from person to person shall be made on forms furnished by the Department of Health.

   (Auth.: HAR §11-60.1-7)

5. In the event of any changes in control or ownership of the facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The permittee shall <u>notify</u> the succeeding owner and operator of the existence of this permit and its conditions by letter, copies of which will be forwarded to the Department of Health and the U.S. Environmental Protection Agency (EPA), Region 9.

   (Auth.: HAR §11-60.1-5, §11-60.1-7, §11-60.1-94)

6. The facility covered by this permit shall be constructed and operated in accordance with the application, and any information submitted as part of the application, for the Covered Source Permit. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department of Health, and the permit is amended to allow such deviation.

   (Auth.: HAR §11-60.1-2, §11-60.1-4, §11-60.1-82, §11-60.1-84, §11-60.1-90)

7. This permit (a) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (b) shall not constitute, nor be construed to be an approval of the design of the covered source.

   (Auth.: HAR §11-60.1-5, §11-60.1-82)

8. The permittee shall comply with all the terms and conditions of this permit. Any permit noncompliance constitutes a violation of HAR, Chapter 11-60.1 and the Clean Air Act and is grounds for enforcement action; for permit termination, suspension, reopening, or amendment; or for denial of a permit renewal application.

   (Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-19, §11-60.1-90)

9. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid.

   (Auth.: HAR §11-60.1-90)

10. The permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the terms and conditions of this permit.

    (Auth.: HAR §11-60.1-90)

11. This permit may be terminated, suspended, reopened, or amended for cause pursuant to HAR, Sections, 11-60.1-10 and 11-60.1-98, and Hawaii Revised Statutes (HRS), Chapter 342B-27, after affording the permittee an opportunity for a hearing in accordance with HRS, Chapter 91.

    (Auth.: HAR §11-60.1-3, §11-60.1-10, §11-60.1-90, §11-60.1-98)

12. The filing of a request by the permittee for the termination, suspension, reopening, or amendment of this permit, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

    (Auth.: HAR §11-60.1-90)

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

    (Auth.: HAR §11-60.1-90)

14. The permittee shall <u>notify</u> the Department of Health and U.S. EPA, Region 9, in writing of the following dates:

a. The **anticipated date of initial start-up** for each emission unit of a new source or significant modification not more than sixty (60) days or less than thirty (30) days prior to such date;
b. The **actual date of construction commencement** within fifteen (15) days after such date; and
c. The **actual date of start-up** within fifteen (15) days after such date.

(Auth.: HAR §11-60.1-90)

15. The permittee shall furnish, in a timely manner, any information or records requested in writing by the Department of Health to determine whether cause exists for terminating, suspending, reopening, or amending this permit, or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Department of Health copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health may require the permittee to furnish such records not only to the Department of Health but also directly to the U.S. EPA, Region 9, along with a claim of confidentiality.

    (Auth.: HAR §11-60.1-14, §11-60.1-90)

16. The permittee shall notify the Department of Health in writing, of the **intent to shut down air pollution control equipment for necessary scheduled maintenance** at least twenty-four (24) hours prior to the planned shutdown. The submittal of this notice shall not be a defense to an enforcement action. The notice shall include the following:

    a. Identification of the specific equipment to be taken out of service, as well as its location and permit number;
    b. The expected length of time that the air pollution control equipment will be out of service;
    c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period;
    d. Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; and
    e. The reasons why it would be impossible or impractical to shut down the source operation during the maintenance period.

    (Auth.: HAR §11-60.1-15; SIP §11-60-16)[2]

17. **Except for emergencies which result in noncompliance with any technology-based emission limitation in accordance with HAR, Section 11-60.1-16.5, in the event any emission unit, air pollution control equipment, or related equipment malfunctions or breaks down in such a manner as to cause the emission of air pollutants in violation of HAR, Chapter 11-60.1 or this permit**, the permittee shall immediately notify the Department of Health of the malfunction or breakdown, unless the protection of personnel or public health or safety demands immediate attention to the malfunction or breakdown and makes such notification infeasible. In the latter case, the notice shall be provided as

soon as practicable. Within five (5) working days of this initial notification, the permittee shall also submit, in writing, the following information:

a. Identification of each affected emission point and each emission limit exceeded;
b. Magnitude of each excess emission;
c. Time and duration of each excess emission;
d. Identity of the process or control equipment causing the excess emission;
e. Cause and nature of each excess emission;
f. Description of the steps taken to remedy the situation, prevent a recurrence, limit the excessive emissions, and assure that the malfunction or breakdown does not interfere with the attainment and maintenance of the National Ambient Air Quality Standards and state ambient air quality standards;
g. Documentation that the equipment or process was at all times maintained and operated in a manner consistent with good practice for minimizing emissions; and
h. A statement that the excess emissions are not part of a recurring pattern indicative of inadequate design, operation, or maintenance.

The submittal of these notices shall not be a defense to an enforcement action.

(Auth.: HAR §11-60.1-16; SIP §11-60-16)[2]

18. The permittee may request confidential treatment of any records in accordance with HAR, Section 11-60.1-14.

(Auth.: HAR §11-60.1-14, §11-60.1-90)

19. This permit shall become invalid with respect to the authorized construction if construction is not commenced as follows:

a. Within eighteen (18) months after the permit takes effect, is discontinued for a period of eighteen (18) months or more, or is not completed within a reasonable time.

b. For phased construction projects, each phase shall commence construction within eighteen (18) months of the projected and approved commencement dates in the permit. This provision shall be applicable only if the projected and approved commencement dates of each construction phase are defined in Attachment II, Special Conditions, of this permit.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

20. The Department of Health may extend the time periods specified in Standard Condition No. 19 upon a satisfactory showing that an extension is justified. Requests for an extension shall be submitted in writing to the Department of Health.

(Auth.: HAR §11-60.1-9, §11-60.1-90)

21. The permittee shall submit fees in accordance with HAR, Chapter 11-60.1, Subchapter 6.

    (Auth.: HAR §11-60.1-90)

22. All certifications shall be in accordance with HAR, Section 11-60.1-4.

    (Auth.: HAR §11-60.1-4, HAR §11-60.1-90)

23. The permittee shall allow the Director of Health, the Regional Administrator for the U.S. EPA and/or an authorized representative, upon presentation of credentials or other documents required by law:

    a. To enter the premises where a source is located or emission-related activity is conducted, or where records must be kept under the conditions of this permit and inspect at reasonable times all facilities, equipment, including monitoring and air pollution control equipment, practices, operations, or records covered under the terms and conditions of this permit and request copies of records or copy records required by this permit; and
    b. To sample or monitor at reasonable times substances or parameters to ensure compliance with this permit or applicable requirements of HAR, Chapter 11-60.1.

    (Auth.: HAR §11-60.1-11, §11-60.1-90)

24. Within thirty (30) days of **permanent discontinuance of the construction, modification, relocation, or operation of the facility covered by this permit**, the discontinuance shall be <u>reported</u> in writing to the Department of Health by a responsible official of the source.

    (Auth.: HAR §11-60.1-8; SIP §11-60-10)[2]

25. Each permit renewal application shall be submitted to the Department of Health and the U.S. EPA, Region 9, no less than twelve (12) months and no more than eighteen (18) months prior to the permit expiration date. The director may allow a permit renewal application to be submitted no less than six (6) months prior to the permit expiration date, if the director determines that there is reasonable justification.

    (Auth.: HAR §11-60.1-101, 40 CFR §70.5(a)(1)(iii))[1]

26. The terms and conditions included in this permit, including any provision designed to limit a source's potential to emit, are federally enforceable unless such terms, conditions, or requirements are specifically designated as not federally enforceable.

    (Auth.: HAR §11-60.1-93)

27. The compliance plan and compliance certification submittal requirements shall be in accordance with HAR, Sections 11-60.1-85 and 11-60.1-86. As specified in HAR,

Section 11-60.1-86, the compliance certification shall be submitted to the Department of Health and the U.S. EPA, Region 9, once per year, or more frequently as set by any applicable requirement.

(Auth.: HAR §11-60.1-90)

28. **Any document (including reports) required to be submitted by this permit shall be certified as being true, accurate, and complete by a responsible official in accordance with HAR, Sections 11-60.1-1 and 11-60.1-4, and shall be mailed to the following address:**

Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814

Upon request and as required by this permit, all correspondence to the State of Hawaii Department of Health associated with this Covered Source Permit shall have duplicate copies forwarded to:

Chief
Permits Office, (Attention: Air-3)
Air Division
U.S. Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105

(Auth.: HAR §11-60.1-4, §11-60.1-90)

29. To determine compliance with submittal deadlines for time-sensitive documents, the postmark date of the document shall be used. If the document was hand-delivered, the date received ("stamped") at the Clean Air Branch shall be used to determine the submittal date.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

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[1] The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IIA: SPECIAL CONDITIONS (by January 10, 2011)
EQUIPMENT IN GASOLINE SERVICE
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. Attachment IIA of this permit encompasses each piece of equipment used in a system that transfers gasoline or gasoline vapors. Equipment under Attachment IIA is each valve, pump, pressure relief device, sampling connection system, open-ended valve or line, flange or other connector in the gasoline liquid transfer, and vapor collection systems. Equipment under Attachment IIA also includes the entire vapor processing system except for exhaust port(s) or stack(s).

   (Auth.: HAR §11-60.1-3)

Section B. Applicable Federal Regulations

1. Each piece of equipment in gasoline service is subject to the provisions of Attachment IIA and the following federal regulations no later than January 10, 2011:

   a. 40 Code of Federal Regulations (CFR) Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A – General Provisions.

   b. 40 CFR Part 63, Subpart BBBBBB, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, and §11-60.1-161; 40 CFR §63.11080, §63.11081)[1]

2. The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, testing, monitoring, and reporting requirements. The major requirements of these standards are detailed in the special conditions of this permit.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

Section C . Operational Limitations and Standards

1. Leak Inspection

   a. The permittee shall perform monthly leak inspection of all equipment in gasoline service. For the monthly leak inspection, detection methods incorporating sight, sound, and smell are acceptable.

b. A log book shall be used and shall be signed by the responsible official or operator at the completion of each inspection. A section of the log book shall contain a list, summary description, or diagram(s) showing the location of all equipment in gasoline service at the facility.

c. Each detection of a liquid or vapor leak shall be recorded in the log book.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11089)[1]

2. Leak Repair

a. When a leak is detected, an initial attempt at repair shall be made as soon as practicable, but no later than five (5) calendar days after the leak is detected. Repair or replacement of leaking equipment shall be completed within fifteen (15) calendar days after detection of each leak, except as provided in Attachment IIA, Special Condition No. C.2.b.

b. Delay of repair of leaking equipment will be allowed if the repair is not feasible within fifteen (15) days.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11089)[1]

Section D . Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-81, §11-60.1-90)

2. Recordkeeping

a. The permittee shall prepare and maintain a record describing the types, identification numbers, and locations of all equipment in gasoline service. If an instrument program is implemented for leak inspections, the record shall contain a full description of the program.

b. The permittee shall record in a log book for each leak that is detected the following information:

1) The equipment type and identification number;
2) The nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell);
3) The date the leak was detected and the date of each attempt to repair the leak;
4) Repair methods applied in each attempt to repair the leak;
5) "Repair delayed" and the reason for the delay if the leak is not repaired within fifteen (15) calendar days after discovery of the leak;
6) The expected date of successful repair of the leak if the leak is not repaired within fifteen (15) days;
7) The date of successful repair of the leak; and
8) Inspector's name and signature.

(Auth: HAR §11-60.1-3, §11-60.1-81, §11-60.1-90; 40 CFR §63.11094)

Section E . Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 17 and 24, respectively:

a. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
b. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)[2]

2. Notifications

a. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, an initial notification as specified in 40 CFR §63.9(b). If the facility is in compliance with the requirements of 40 CFR Part 63, Subpart BBBBBB, at the time of initial notification is due, the notification of compliance status required under Attachment IIA, Special Condition No. E.2.b may be submitted in lieu of the initial notification.

b. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, notification of compliance status as specified in 40 CFR §63.9(h).

c. The permittee must submit additional notifications specified in 40 CFR §63.9, as applicable.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §63.9, §63.11093)[1]

3. Deviations

The permittee shall report **within five (5) days** any deviations from the permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Corrective actions may include a requirement for additional testing, more frequent monitoring, or implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

4. Monitoring Report

The permittee shall complete and submit a **semi-annual** monitoring report to the Department of Health and U.S. EPA, Region 9. Each report shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Monitoring Report Form – Equipment Leaks (by January 10, 2011)** shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §63.11095)[1]

5. Excess Emissions Report

The permittee shall complete and submit an excess emissions report to the Department of Health and U.S. EPA, Region 9, at the time the semi-annual monitoring report specified in Attachment IIA, Special Condition No. E.4 is submitted. The enclosed **Excess Emissions Report Form – Equipment Leaks (by January 10, 2011)** shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §63.11089, §63.11095)[1]

6. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;

b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
f. Any additional information as required by the Department of Health, including information to determine compliance.

The compliance certification shall be submitted within **ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official.

Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section F . Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

[1] The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IIB: SPECIAL CONDITIONS (by January 10, 2011)
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility.

Section A. Equipment Description

1. Attachment IIB of this permit encompasses the following gasoline tanks:

Tank No.	Working Capacity barrels	Tank Description
2	14,635	internal floating roof with mechanical shoe primary seal
4	4,354	internal floating roof with mechanical shoe primary seal

(Auth.: HAR §11-60.1-3)

2. The permittee shall identify the tank number and product stored by each tank. The tank number and product shall be displayed on each tank at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. The gasoline storage tanks are subject to the provisions of Attachment IIB and the following federal regulations no later than January 10, 2011:

   a. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A – General Provisions.

   b. 40 CFR Part 63, Subpart BBBBBB, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11081)[1]

2. The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, testing, monitoring and reporting requirements. The major requirements of these standards are detailed in the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

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Section C. Operational Limitations

1. Construction and Operation

   Tank Nos. 2 and 4 shall be equipped with an internal floating roof and meet the following specifications:

   a. The true vapor pressure of the volatile organic liquid (VOL) stored in the tanks shall be maintained below eleven (11) psia at all times.

   b. The tanks shall meet either one of the following requirements:

      1) Equip each tank according to the requirements in 40 CFR, §60.112b(a)(1), except for secondary seal requirements under 40 CFR §60.112b(a)(1)(ii)(B) and the requirements in 40 CFR §60.112b(a)(1)(iv) through (ix).

      2) Equip and operate each tank according to the requirements of 40 CFR §63.1063(a)(1).

   (Auth.: HAR §11-60.1-3, §11-60.1-39, §11-60.1-90; 40 CFR §63.11087)[1]

2. Compliance

   For operating Tank Nos. 2 and 4, the permittee shall be in compliance with Attachment IIB, Special Condition No. C.1.b at the first degassing and cleaning activity after January 10, 2011, or by January 10, 2018, whichever is first.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11087)[1]

Section D . Monitoring and Recordkeeping Requirements

1. Records

   All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained, in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-81, §11-60.1-90)

2. Inspections

   a. Internal floating roof storage tank inspections of the floating roof systems shall be performed according to the requirements of 40 CFR §60.113b(a) for option specified in Attachment IIB, Special Condition No. C.1.b.1.

   b. Internal floating roof storage tank inspections of the floating roof systems shall be performed according the requirements of 40 CFR §63.1063 (c)(1) for option specified in Attachment IIB, Special Condition No. C.1.b.2.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11092)[1]

3. Operation and Inspection Records

   a. The permittee shall keep records for each gasoline storage tank in accordance with 40 CFR §60.115b if complying with Attachment IIB, Special Condition No. C.1.b.1, except that records shall be kept for five (5) years.

   b. The permittee shall keep records for each gasoline storage tank in accordance with 40 CFR §63.1065 if complying with Attachment IIB, Special Condition No. C.1.b.2.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §63.11094)

Section E. Notification and Reporting Requirements

1. Standard Condition Reporting

   Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17, and 24, respectively:

   a. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
   b. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
   c. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

   (Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)[2]

2. Notifications

   a. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, an initial notification as specified in 40 CFR §63.9(b). If the facility is in compliance with

the requirements of 40 CFR Part 63, Subpart BBBBBB, at the time of initial notification is due, the notification of compliance status required under Attachment IIB, Special Condition No.E.2.b may be submitted in lieu of the initial notification.

b. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, notification of compliance status as specified in 40 CFR §63.9(h). The notification of compliance status must specify which of the compliance options included in Attachment IIB, Special Condition No. C.1.b is used to comply with 40 CFR Part 63, Subpart BBBBBB.

c. The permittee must submit additional notifications specified in 40 CFR §63.9, as applicable.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, and §11-60.1-90; 40 CFR §63.11093)[1]

3. Deviations

The permittee shall report **within five (5) working days** any deviations from permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Corrective actions may include a requirement for testing, or more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

4. Monitoring Report

The permittee shall submit **semi-annually** the following written report to the Department of Health and U.S. EPA, Region 9. The report shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The report shall include the applicable information specified in 40 CFR, §60.115b(a) or 40 CFR §63.1065, depending upon option selected pursuant to Attachment IIB, Special Condition No. D.3. The enclosed **Monitoring Report Form: Storage Tanks**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

5. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;
b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
f. Any additional information as required by the Department of Health, including information to determine compliance.

The compliance certification shall be submitted within **ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official.

Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section F. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be in accordance with Attachment I, Standard Condition No. 28.

   (Auth.: HAR §11-60.1-4, §11-60.1-90)

[1] The citations to the CFR identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IIC: SPECIAL CONDITIONS (by January 10, 2011)
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. Attachment IIC of this permit encompasses the following equipment:

   a. Bottom loading load rack with one (1) loading lane and nine (9) product load arms; and

   b. 4,800 gallon per minute capacity John Zink vapor combustion system, model no. ZCT-2-8-35-X-2/8-X-X, serial no. VC-954547.

   (Auth.: HAR §11-60.1-3)

2. The permittee shall install an identification tag or name plate on the vapor combustion system which identifies the model no., serial no., and manufacturer. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

   (Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. The bottom loading load rack and associated appurtenances are subject to the provisions of the following federal regulations:

   a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A - General Provisions.

   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart XX - Bulk Gasoline Terminals.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.500)[1]

2. The bottom loading load rack and associated appurtenances are subject to the provisions of Attachment IIC and the following federal regulations no later than January 10, 2011:

   a. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A – General Provisions.

   b. 40 CFR Part 63, Subpart – BBBBBB, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.500)[1]

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3. The permittee shall comply with all applicable provisions of these standards, including all emission limits and all notification, testing, monitoring, and reporting requirements. The major requirements of these standards are detailed in the special conditions of this covered source permit.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

Section C. Operational and Emission Limitations

1. Bottom Loading Load Rack

   a. The total combined throughput of the bottom loading load rack shall not exceed 5,631,429 barrels of gasoline (e.g., motor gasoline, aviation gasoline, naphtha/whole straight run gasoline, etc.) in any rolling twelve-month (12-month) period.

   b. The permittee shall comply with the standards specified in option 1 of Table 2 to 40 CFR Part 63, Subpart BBBBBB, within three (3) years after reaching a gasoline throughput of 250,000 gallons per day or greater.

   c. Except when requested pursuant to Attachment IIC, Special Condition No. E.5, the permittee shall make records available within twenty-four (24) hours of a request by the Department of Health to document the load rack's average daily gasoline throughput.

   d. The permittee shall use submerged filling at the load rack with a submerged fill pipe that is no more than six (6) inches from the bottom of the cargo tank.

   (Auth.: HAR §11-60.1-3, §11.60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §63.11083, §63.11088)[1]

2. Tank Truck Loading

   Loading of liquid product into all gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks using the following procedures:

   a. Obtain the vapor tightness documentation referenced in Attachment IIC, Special Condition No. D.4, for each gasoline tank truck which is to be loaded at the facility.

   b. Require the tank identification number to be recorded as each gasoline tank truck is loaded at the terminal.

   c. **Within two (2) weeks** after the corresponding tank truck loading, the permittee shall cross-check each tank identification number with the vapor tightness documentation file referenced in this Attachment IIC, Special Condition No. D.4.

d. Notify the owner or operator of the respective tank truck within **one (1) week** after the loading has occurred if the documentation file shows a tank truck to be nonvapor-tight.

e. Ensure that the nonvapor-tight tank truck will not be reloaded at the facility until the vapor-tightness documentation for that truck is obtained, and the test results document a vapor-tight tank.

f. Alternate procedures to Attachment IIC, Special Condition Nos. C.2.a through C.2.e, for limiting gasoline tank truck loadings may be used upon application to and approval by, the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR 60.502)[1]

3. Vapor Collection System

a. The vapor collection system shall be designed to prevent any total organic compound vapors collected at one loading rack from passing to another loading rack.

b. The permittee shall ensure that loadings of gasoline tank trucks are made into tank trucks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.

c. The permittee shall ensure that the terminal's and the tank truck's vapor collection systems and scully are connected properly during each tank truck loading. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the loading rack.

d. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the gasoline tank truck from exceeding 4,500 Pascals (450 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR §60.503(d).

e. No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4,500 Pascals (450 mm of water).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.502, §60.503)[1]

4. Vapor Combustion System

a. Emissions to the atmosphere from the vapor combustion system shall not exceed thirty-five (35) milligrams of total organic compounds per liter (35 mg/l) of gasoline loaded.

b. For any six (6) minute averaging period, the vapor combustion system shall not exhibit visible emissions of twenty (20) percent opacity or greater, except as follows: during

startup, shutdown, or equipment breakdown, the vapor combustion system may exhibit visible emissions greater than twenty (20) percent opacity but not exceeding sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

c. The vapor combustion system shall be connected, fully functional, and operational at all times whenever the load rack is in operation. A pilot flame, as detected by the flame scanner, shall be present when loading cargo tanks.

d. The vapor combustion system shall be operated and maintained in accordance with manufacturer's specifications and inspected in accordance with Attachment IIC, Special Condition No. D.6.

(Auth.: HAR §11-60.1-3, §11-60.1-16, §11-60.1-32, §11-60.1-90, §11-60.1-161; 40 CFR §60.502)[1]

5. Leak Repair

Leaks or defects at the facility shall be repaired in accordance with Attachment IIA, Special Condition No. C.2.

(Auth.: HAR §11-60.1-3, §11-60.1-16, §11-60.1-90, §11-60.1-161; 40 CFR §60.502; 40 CFR §63.11088; SIP §11-60-15)[1,2]

Section D. Monitoring and Recordkeeping Requirements

1. Records

All records, including support information, shall be maintained for at least five (5) years from the date of the monitoring sample, measurement, test, report, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

2. Load Rack Throughput

The permittee shall install, operate, and maintain a flow meter for the bottom loading load rack to permanently measure and record the throughput of each product loaded. The non-resetting flow meter shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or meter replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations, before the meter

returns to a zero reading. A record of daily throughput of each product shall be maintained and the cumulative product throughput shall be reported in accordance with Attachment IIC, Special Condition Nos. E.4 and E.5.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

3. Flame Monitor

The permittee shall maintain and operate a flame scanner for the vapor combustion system to detect the presence of a pilot flame when loading cargo tanks. Maintenance or servicing shall be performed on the vapor combustion system if the flame scanner indicates the pilot assembly is not igniting during operations to load cargo tanks.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

4. Tank Truck Vapor Tightness

a. The permittee shall maintain a tank truck vapor tightness documentation file on each gasoline cargo tank to be loaded at the facility for purposes of the requirements specified in Attachment IIC, Special Condition No. C.2. The file for each gasoline tank truck shall be updated **at least once per year** to reflect current test results as determined by 40 CFR 60, Appendix A, Method 27, Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test. This documentation file shall include, at a minimum, the following information:

   1) Name of test: Annual Certification Test - Method;
   2) Cargo tank owner's name and address;
   3) Cargo tank identification number;
   4) Testing location and date;
   5) Tester name and signature;
   6) Witnessing inspector, if any: name, signature, and affiliation;
   7) Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing; and
   8) Test results: Test pressure; pressure or vacuum change, mm of water; time period of test; number of leaks found with instrument; and leak definition.

b. Annual certification testing shall be conducted using criteria specified in 40 CFR §63.11092(f)(1).

c. As an alternative to keeping records in accordance with Attachment IIC, Special Condition No. D.4.a, the permittee may comply with the requirements specified in either 40 CFR §63.11094(c)(1) or 40 CFR §63.11094(c)(2).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.505, §63.11092, §63.11094; SIP §11-60-15)[1,2]

5. Pressure Measurement

The permittee shall operate and maintain a calibrated pressure measurement device (e.g., liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with ± 2.5 mm of water precision for purposes of the requirements specified in Attachment IIC, Special Condition No. C.3. The device shall be operated on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline cargo tank.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, and §11-60.1-161; 40 CFR 60.503; SIP §11-60-15)[1,2]

6. Monthly Leak Inspections

At least monthly, the vapor collection system, vapor combustion system, and the bottom loading load rack shall be inspected during the loading of gasoline cargo tanks for total organic compound liquid or vapor leaks in accordance with Attachment IIA of this permit. Each detection of a leak shall be documented in accordance with Attachment IIA, Special Condition No. D.2.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, and §11-60.1-161, 40 CFR §60.502, §60.505, §63.11089; SIP §11-60-15)[1,2]

7. Visible Emissions

a. Except in those months where visible emissions observations are conducted by a certified reader for the annual observation of the vapor combustion system, the permittee shall conduct **monthly** (calendar month), visible emissions observations of the vapor combustion system to determine the presence of visible emissions during the loading of tank trucks. The **Monitoring Report Form: Bottom Loading Load Rack,** shall be used for reporting. If visible emissions are observed from the vapor combustion system during tank truck loading, visible emissions observations shall be conducted in accordance with Attachment IIC, Special Condition No. D.7.b.

b. Except in those months where V.E. observations are conducted by a certified reader for the annual observations of the vapor combustion system and if visible emissions are observed pursuant to Attachment IIC, Special Condition D.7.a, the permittee shall conduct **monthly** (calendar month), visible emissions observations for the vapor combustion system in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the visible emissions form requirements. If there are no visible emissions from the vapor combustion system, visible emissions observations shall be conducted in accordance with Attachment IIC, Special Condition D.7.a.

c. The permittee shall conduct annually (calendar year), visible emissions observations for the vapor combustion system by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observation, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the visible emissions form requirements.

d. Upon written request and justification by the permittee, the Department of Health may waive the requirement for the annual visible emissions observation for the vapor combustion system. The waiver request is to be submitted prior to the required annual visible emissions observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior visible emissions observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual visible emissions observation.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

8. Maintenance

The permittee shall keep maintenance records of all component replacements and additions for the vapor collection system, vapor combustion unit, and bottom loading load rack.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.505; SIP §11-60-15)[1,2]

9. Tank Truck Owner Notification

The permittee shall keep documentation of all notifications made to owners or operators of gasoline tank trucks that were found to be non-vapor tight, as required by Attachment IIC, Special Condition No. C.2.d.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR 60.505; SIP §11-60-15)[1,2]

Section E. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17, and 24, respectively:

a. Intent to shut down air pollution control equipment for necessary scheduled maintenance;

b. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and
c. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10 and §11-60-16)[2]

2. Notifications

a. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, an initial notification as specified in 40 CFR §63.9(b). If the facility is in compliance with the requirements of 40 CFR Part 63, Subpart BBBBBB, at the time the initial notification is due, the notification of compliance status required under Attachment IIC, Special Condition No. E.2.b, may be submitted in lieu of the initial notification.

b. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, notification of compliance status as specified in 40 CFR §63.9(h).

c. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, additional notifications as specified in 40 CFR §63.9, as applicable.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §63.11093)[1]

3. Deviations

The permittee shall report **within five (5) working days** any deviations from permit requirements, including those attributed to upset conditions, the probable cause of such deviations and any corrective actions or preventive measures taken. Corrective actions may include a requirement for additional testing, or more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

4. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall submit **annually** the total tons per year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days** following the end of each calendar year. Completion and submittal of the **Annual Emissions Report Form: Bottom Loading Load Rack**, shall be used for reporting.

Upon the written request of the permittee, the deadline for reporting annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

5. Monitoring Reports

The permittee shall submit **semi-annually** the following written reports to the Department of Health and U.S. EPA, Region 9. The reports shall be submitted **within sixty (60)** days after the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Monitoring Report Form - Bottom Loading Load Rack** and **Monitoring Report Form – Opacity Exceedances** shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP §11-60-15)[2]

6. Excess Emissions Report

The permittee shall complete and submit an excess emissions report to the Department of Health and U.S. EPA, Region 9, at the time the semi-annual monitoring report specified in Attachment IIC, Special Condition No. E.5 is submitted. The enclosed **Excess Emissions Report Form – Bottom Loading Load Rack (by January 10, 2011)** shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90; 40 CFR §63.11089, §63.11095)[1]

7. Performance Testing

a. Prior to conducting a source performance test required by Attachment IIC, Special Condition No. F.1, the permittee shall submit a source test plan in accordance with Attachment IIC, Special Condition No. F.5.

b. **Within sixty (60) days after** completion of a source performance test, the permittee shall submit the test results as specified in Attachment IIC, Special Condition No. F.6.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, and §11-60.1-161; 40 CFR §60.8, §60.503; SIP §11-60.1-15)[1,2]

8. Compliance Certification

During the permit term, the permittee shall submit **at least annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;
b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
f. Any additional information as required by the Department of Health, including information to determine compliance.

The compliance certification shall be submitted within **ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official.

Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section F. Testing Requirements

1. Annual Performance Testing

On an annual basis, or at such other times as determined by the Department of Health, the permittee shall conduct or cause to be conducted performance tests on the load rack to determine compliance with Attachment IIC, Special Conditions Nos. C.3.d and C.4.a.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.503; SIP §11-60-15)[1,2]

2. Testing Expense and Monitoring

The permittee shall provide sampling and testing facilities at its own expense and the Department of Health may monitor the tests performed at the facility.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Test Procedures

a. To determine compliance with Attachment IIC, Special Condition No. C.3.d, during the performance test, the pressure shall be recorded every five (5) minutes while a gasoline tank truck is being loaded; the highest instantaneous pressure that occurs during each

loading shall also be recorded. Every loading position must be tested at least once during the performance test.

b. Compliance with Attachment IIC, Special Condition No. C.4.a shall be determined as follows:

i. The performance test shall be six (6) hours long during which at least 300,000 liters of gasoline shall be loaded. If this is not possible, the test may be continued the same day until 300,000 liters of gasoline are loaded or the test may be resumed the next day with another complete six-hour (6-hour) period. In the later case, the 300,000 liter criterion need not be met. As much as possible, testing should be conducted during the six-hour (6-hour) period in which the highest throughput normally occurs.

ii. If the vapor processing system is intermittent in operation, the performance test shall begin at a reference vapor holder level and shall end at the same reference point. The test shall include at least two (2) startups and shutdowns of the vapor processor. If this does not occur under automatically controlled operations, the system shall be manually controlled.

iii. The emission rate (E) of total organic compounds shall be computed using the equation described in 40 CFR §60.503(c)(3).

iv. The performance test shall be conducted in intervals of five (5) minutes. For each interval "I," readings from each measurement shall be recorded, and the volume exhausted (V_{esi}) and the corresponding average total organic compounds concentration (C_{ei}) shall be determined. The sampling system response time shall be considered in determining the average total organic compounds concentration corresponding to the volume exhausted.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8; SIP §11-60-15)[1,2]

4. Test Methods

Performance tests shall be conducted and results reported in accordance with the test methods and procedures set forth in 40 CFR §60.8, 40 CFR §60.503, and 40 CFR Part 60, Appendix A. The following test methods and provisions or EPA-approved equivalent test methods shall be used:

a. Method 21, Determination of Volatile Organic Compound Leaks. This procedure shall be performed immediately before the performance test to monitor leakage of vapors from all potential sources in the terminal's vapor collection system while a gasoline cargo tank is being loaded. Any areas measured at 10,000 ppm (as methane) or greater, shall be repaired prior to conducting the performance test.

b. Method 2B, Determination of Exhaust Gas Volume Flow Rate From Gasoline Vapor Incinerators, shall be used for the combustion vapor processing system.

c. Method 2A, Direct Measurement of Gas Volume Through Pipes and Small Ducts shall be used for all systems other than combustion vapor processing systems.

d. The following methods shall be used to determine the total organic compound concentration exiting the vapor combustion system:

   i. Method 25A, Determination of Total Gaseous Organic Concentration Using Flame Ionization Analyzer; or
   ii. Method 25B, Determination of Total Gaseous Organic Concentration Using a nondispersive infrared analyzer; and
   iii. The permittee may exclude the methane and ethane content in the exhaust vent by any approved method (e.g., Method 18).

e. Terminal records or readings from gasoline dispensing meters at the bottom loading load rack shall be used to determine the volume of gasoline dispensed during the performance test period.

f. Any deviations from these conditions, test methods, or procedures may be cause for rejection of the test results unless such deviations are approved by the Department of Health before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §60.503; SIP §11-60-15)[1,2]

5. Performance Test Plan

At least sixty (60) calendar days prior to conducting the performance test specified in Attachment IIC, Special Condition No. F.1, the permittee shall submit a written performance test plan to the Department of Health and U.S. EPA, Region 9, that includes date(s) of the test, test duration, test methods, source operation, and any other parameters that may affect the test results. A test plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §60.8, §63.7; SIP §11-60-15)[1,2]

6. Performance Test Report

Within sixty (60) days after completion of the performance test, the permittee shall submit to the Department of Health and U.S. EPA, Region 9, the test report which includes the operating conditions of the bottom loading load rack and vapor combustion system at

the time of the test (e.g., number of leaks repaired prior to testing and gasoline throughput), the summarized test results, other pertinent support calculations, and field/laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, and §11-60.1-161, 40 CFR §60.503, §63.7; SIP §11-60-15)[1,2]

7. Testing Expense and Monitoring

The permittee shall provide sampling and testing facilities at its own expense and the Department of Health may monitor the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-15, §11-60.1-16, §11-60.1-90)

8. Performance Test Waiver

Upon written request and justification, the Department of Health may waive the requirement for a specific annual performance test. The waiver request is to be submitted prior to the required performance test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous performance test.

(Auth.: HAR §11-60.1-3, §11-60.1-90; 40 CFR §63.7)[1]

Section G. Agency Notification

1 Any document (including reports) required to be submitted by this covered source permit shall be in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

[1] The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IID: SPECIAL CONDITIONS
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility.

Section A. Equipment Description

1. Attachment IID of this permit encompasses the following storage tanks:

Tank No.	Working Capacity (barrels)	Tank Description
1	24,360	internal floating roof with mechanical shoe primary seal
2	14,635	internal floating roof with mechanical shoe primary seal
4	4,354	internal floating roof with mechanical shoe primary seal
5	3,400	internal floating roof with mechanical shoe primary seal
12	1,316	internal floating roof with mechanical shoe primary seal

(Auth.: HAR §11-60.1-3)

2. The permittee shall identify the tank number and product stored by each tank. The tank number and product shall be displayed on each tank at a conspicuous location.

(Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. Tank Nos. 1, 5, and 12, are subject to the provisions of the following federal regulations:

   a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A – General Provisions.

   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.

(Auth.: HAR §11-60.1-3, HAR §11-60.1-90, HAR §11-60.1-161; 40 CFR §60.2, §60.110b)[1]

2. Tank Nos. 1, 5, and 12, are subject to the notification requirements of the following federal regulations in accordance with Attachment IID, Special Condition No. C.1.b:

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a. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A – General Provisions.

b. 40 CFR Part 63, Subpart BBBBBB – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities.

(Auth.: HAR §11-60.1-3, HAR §11-60.1-90, HAR §11-60.1-161; 40 CFR §63.11080, §63.11081)[1]

3. The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, testing, monitoring and reporting requirements. The major requirements of these standards are detailed in the special conditions of this permit.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

Section C . Operational Limitations and Standards

1. General

a. The permittee may operate Tank Nos. 2 and 4, in accordance with either the applicable conditions specified in Attachment IIB or Attachment IID of this permit. On January 10, 2011, Tank Nos. 2 and 4, shall operate in accordance with the conditions specified in Attachment IIB and Attachment IID, conditions will no longer apply to Tank Nos. 2 and 4.

b. Tank Nos. 1, 5, and 12, are subject to the control requirements specified in 40 CFR Part 60, Subpart Kb and are deemed in compliance with 40 CFR Part 63, Subpart BBBBBB, if requirements of Attachment IID and 40 CFR Part 60, Subpart Kb are met. The permittee shall report this determination in the Notification of Compliance Status Report pursuant to Attachment IID, Special Condition No. E.2.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11087)[1]

2. Tank Nos. 1, 5, and 12, Construction and Operation

The storage tanks shall have a fixed roof with an internal floating roof and meet the following specifications:

a. The true vapor pressure of the volatile organic liquid (VOL) stored shall be maintained below eleven (11) psia at all times;
b. Equip and operate each tank according to the requirements of 40 CFR Part 60, §60.112b(a)(1), that includes the requirement to install the following closure devices between the wall of the storage tank and the edge of the internal floating roof:

i. A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal);
ii. Two (2) seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage tank and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous; or
iii. A mechanical shoe seal.

(Auth.: HAR §11-60.1-3, §11-60.1-39, §11-60.1-90, §11-60.1-161; 40 CFR 60.112b)[1]

3. Tank Nos. 2 and 4, Construction and Operation

Tank Nos. 2 and 4, shall be equipped with an internal floating roof and meet the following specifications:

a. The true vapor pressure of the volatile organic liquid (VOL) stored in the tanks shall be maintained below eleven (11) psia at all times.

b. The internal floating roofs shall rest or float on the liquid surface and be equipped with a closure seal(s) to close the space between the roof edge and the tank wall. All tank gauging and sampling devices shall be gas-tight except when tank gauging or sampling is taking place.

(Auth.: HAR §11-60.1-3, §11-60.1-39, §11-60.1-90)

Section D. Monitoring and Recordkeeping Requirements

1. Records

Except for the record required by Attachment IID, Special Condition No. D.6.d, the permittee shall maintain records, including support information, at the facility for at least five (5) years from the date of the monitoring samples, measurements, tests, reports, or application. Support information includes all maintenance, inspection, and repair records, and copies of all reports required by this permit. These records shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

2. Tank Nos. 1, 5, and 12, Inspection

Tank inspection shall be performed as follows:

a. For a tank equipped with the seal system specified in Attachment IID, Special Condition No. C.2.b.i, inspect in accordance with Attachment IID, Special Condition Nos. D.3, D.4, and D.5.

b. For a tank equipped with the seal system specified in Attachment IID, Special Condition No. C.2.b.ii, inspect in accordance with:

   i. Attachment IID, Special Condition Nos. D.3, D.4, and D.5; or alternatively
   ii. Attachment IID, Special Condition Nos. D.3 and D.5, except that for the requirements of Special Condition No. D.5, inspect at least every **five (5) years** instead of ten (10) years.

c. For a tank equipped with the seal system specified in Attachment IID, Special Condition No. C.2.b.iii, inspect in accordance with Attachment IID, Special Condition Nos. D.3, D.4, and D.5.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b; SIP §11-60-15)[1,2]

3. Tank Nos. 1, 5, and 12, Inspection (prior to each filling)

After installing the control equipment required to meet Attachment IID, Special Condition No. C.2.b, the permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage tank 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 permittee shall repair the items before filling the storage vessel.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b; SIP §11-60-15)[1,2]

4. Tank Nos. 1, 5, and 12, Inspection (at least annually after initial fill)

The permittee shall visually inspect the internal floating roof, the primary seal, and 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 tank, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the storage tank from service within **forty-five (45) days**. If a failure that is detected during inspections required by this paragraph cannot be repaired within **forty-five (45) days** and if the tank cannot be emptied within **forty-five (45) days**, a **thirty-day (30-day)** extension may be requested in the inspection report required by Attachment IID, Special Condition No. E.8. Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the permittee will take that will assure that the control equipment will be repaired or the storage tank will be emptied as soon as possible.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b; SIP §11-60-15)[1,2]

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5. Tank Nos. 1, 5, and 12, Inspection (emptied and degassed)

   The permittee shall 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 tank is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than ten (10) percent open area, the permittee shall repair the items, as necessary, so that none of the conditions specified in this paragraph exist before refilling the storage tank with VOL. In no event, shall inspections conducted in accordance with this condition occur at intervals greater than ten (10) years for tank inspections specified in Attachment IID, Special Condition Nos. D.2.a, D.2.b.i, and D.2.c. In no event, shall inspections conducted in accordance with this condition occur at intervals greater than five (5) years for inspections performed in accordance with Attachment IID, Special Condition No. D.2.b.ii.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b; SIP §11-60-15)[1,2]

6. Tank Nos. 1, 5, and 12 Records

   a. The permittee shall keep records of each inspection performed as required by Attachment IID, Special Condition Nos. D.3, D.4, and D.5. Records shall include the tank identification, the date the tank was inspected, and the observed condition of each component of the control equipment (seals, internal floating roof, fittings, etc.).

   b. For each storage tank, records shall be maintained on the type of VOL stored, the period of storage, and the maximum true vapor pressure (psia) of VOL during the respective storage period. Determination of the true vapor pressure shall be done in accordance with 40 CFR §60.116b(e).

   c. A tank gauging system shall be operated and maintained for each tank to determine the yearly throughput of product for purposes of annual emissions reporting.

   d. Records showing the dimensions of each storage tank and an analysis showing the capacity of each storage tank shall be maintained for the life of each tank.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR, §60.115b, §60.116b; SIP §11-60-15)[1,2]

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Section E. Notification and Reporting Requirements

1. Standard Condition Reporting

   Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17, and 24, respectively:

   a. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
   b. Emissions of air pollutants in violation of HAR, Chapter 11-60.1, or this permit (excluding technology-based emission exceedences due to emergencies); and
   c. Permanent discontinuance of construction, modification, relocation, or operation of the facility, or any storage tank, covered by this permit.

   (Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10; SIP §11-60-16)[2]

2. Tank Nos. 1, 5, and 12, Notifications

   a. The permittee shall submit to the Department of Health and U.S. EPA, Region 9, a Notification of Compliance Status as specified in 40 CFR §63.9(h). The notification of compliance status must specify which of the compliance options included in Table 1 of 40 CFR Part 63, Subpart BBBBBB, is used to comply with the requirements.

   b. The permittee shall submit to the Department of Health and U.S. EPA,Region 9, additional notifications as specified in 40 CFR §63.9, as applicable.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §63.11093)[1]

3. Deviations

   The permittee shall report **within five (5) working days** any deviations from permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Corrective actions may include a requirement for testing, or more frequent monitoring, or could trigger implementation of a corrective action plan.

   (Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

4. Monitoring Report

   The permittee shall submit **semi-annually** the following written report to the Department of Health and U.S. EPA, Region 9. The report shall be submitted **within sixty (60) days after**

the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Monitoring Report Form: Storage Tanks**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

5. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall submit **annually** the total tons per year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. Completion and submittal of the **Annual Emissions Report Form: Storage Tanks**, shall be used for reporting.

Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

6. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;
b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
f. Any additional information as required by the Department of Health, including information to determine compliance.

The compliance certification shall be submitted within **ninety (90) days after** the end of each calendar year, and shall be signed and dated by a responsible official.

Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

7. Tank Nos. 1, 5, and 12, Filling and Refilling

The permittee shall notify the Department of Health in writing at least **thirty (30) days** prior to the filling or refilling of each storage tank for which an inspection is required by Attachment IID, Special Condition Nos. D.3 and D.5. If the inspection required by Attachment IID, Special Condition No. D.5 is unplanned and the required **thirty (30) day** advance notice cannot be given, the permittee shall notify the Department of Health at least **seven (7) days prior** to refilling the tank. Notification shall be made by telephone followed immediately 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 the Department of Health receives the notice at least **seven (7) days prior** to the refilling.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b; SIP §11-60-15)[1,2]

8. Tank Nos. 1, 5, and 12 Inspection Report (prior to each filling)

The permittee shall furnish a report to the Department of Health and U.S. EPA, Region 9, after installing the control equipment in accordance with Attachment IID, Special Condition No. C.2.b, and performing visual inspection pursuant to Attachment IID, Special Condition Nos. C.2.b, and D.3. The report shall describe the control equipment and certify that the control equipment meets the specifications of Attachment IID, Special Condition No. D.3. This report shall be an attachment to the notification required by 40 CFR Part 60, §60.7(a)(3).

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.113b, §60.115b; SIP §11-60-15)[1,2]

9. Tank Nos. 1, 5, and 12, Inspection Report (annual)

A report shall be submitted to the Department of Health and U.S. EPA, Region 9, within **thirty (30) days** of the annual visual inspection required by Attachment IID, Special Condition No. D.4, if any conditions described in Special Condition No. D.4 are detected. Each report shall identify the storage tank, the nature of the defects, and the date the storage tank was emptied or the nature of and date the repair was made.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b, §60.115b; SIP §11-60-15)[1,2]

10. Tank Nos. 1, 5, and 12, Inspection Report (other)

    A report shall be submitted to the Department of Health and U.S. EPA, Region 9, for inspections required by Attachment IID, Special Condition No. D.2.b. This report shall be submitted within **thirty (30) days** if an inspection performed pursuant to Attachment IID, Special Condition Nos. D.4 or D.5, finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in Attachment IID, Special Condition No. D.4. The report shall identify the storage tank and the reason it did not meet the specifications of 40 CFR §60.112b(a)(1) or 40 CFR §60.113b(a)(3) and list each repair made.

    (Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; §11-60-161; 40 CFR §60.113b, §60.115b; SIP §11-60-15)[1,2]

Section F. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be in accordance with Attachment I, Standard Condition No. 28.

   (Auth.: HAR §11-60.1-4, §11-60.1-90)

[1] The citations to the CFR identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT IIE: SPECIAL CONDITIONS
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. Attachment IIE of this permit encompasses the following equipment:

   a. Bottom loading load rack with one (1) loading lane and nine (9) product load arms; and

   b. 4,800 gallon per minute capacity John Zink vapor combustion system, model no. ZCT-2-8-35-X-2/8-X-X, serial no. VC-954547.

   (Auth.: HAR §11-60.1-3)

2. The permittee shall install an identification tag or name plate on the vapor combustion system which identifies the model no., serial number no., and manufacturer. The identification tag or name plate shall be permanently attached to the equipment at a conspicuous location.

   (Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. The bottom loading load rack and associated appurtenances are subject to the provisions of the following federal regulations:

   a. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart A - General Provisions.

   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart XX - Bulk Gasoline Terminals.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.2, §60.500)[1]

2. The permittee shall comply with all applicable provisions of these standards, including all emissions limits and all notification, testing, monitoring, and reporting requirements. The major requirements of these standards are detailed in the special conditions of this covered source permit.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161)

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Section C. Operational Limitations

1. General

The permittee may operate the bottom loading load rack and associated appurtenances in accordance with either the conditions specified in Attachment IIC or Attachment IIE of this covered source permit. After January 10, 2011, the bottom loading load rack and associated appurtenances shall operate in accordance with the conditions in Attachment IIC and Attachment IIE conditions will no longer apply.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §63.11087)[1]

2. Bottom Loading Load Rack

a. The total combined throughput of the bottom loading load rack shall not exceed 5,631,429 barrels of gasoline (e.g., motor gasoline, aviation gasoline, naphtha/whole straight run gasoline, etc.) in any rolling twelve-month (12-month) period.

b. The permittee shall comply with the standards specified in option 1 of Table 2 to 40 CFR Part 63, Subpart BBBBBB, within three (3) years after reaching a gasoline throughput of 250,000 gallons per day or greater.

c. Except when requested pursuant to Attachment IIE, Special Condition No. E.4, the permittee shall make records available within twenty-four (24) hours of a request by the Department of Health to document the load rack's average daily gasoline throughput.

(Auth.: HAR §11-60.1-3, §11.60.1-5, §11-60.1-90; 40 CFR §63.11083)[1]

3. Tank Truck Loading

Loading of liquid product into all gasoline tank trucks shall be limited to vapor-tight gasoline tank trucks. To verify vapor-tightness of the tank trucks, the permittee shall perform the following:

a. Obtain the vapor tightness documentation referenced in Attachment IIE, Special Condition No. D.4 for each gasoline tank truck which is to be loaded at the facility.

b. Require the tank identification number to be recorded as each gasoline tank truck is loaded at the terminal.

c. **Within two (2) weeks** after the corresponding tank truck loading, the permittee shall cross-check each tank identification number with the vapor tightness documentation file referenced in Attachment IIE, Special Condition No. D.4.

d. Notify the owner or operator of the respective tank truck within **one (1) week** after the loading has occurred if the documentation file shows a tank truck to be nonvapor-tight.

e. Ensure that the nonvapor-tight gasoline tank truck is not reloaded at the facility until the vapor tightness documentation for that truck is obtained and the test results document a vapor-tight tank.

f. Alternate procedures to Attachment IIE, Special Condition Nos. C.3.a through C.3.e for limiting gasoline tank truck loadings may be used upon application to, and approval by, the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90, §11-60.1-161; 40 CFR §60.502)[1]

4. Vapor Collection System

a. The permittee shall ensure that the terminal's and tank truck's vapor collection systems are connected properly and that the scully is connected prior to each tank truck loading. Examples of actions to ensure that systems are properly connected include training drivers in the hookup procedures and posting visible reminder signs at the bottom loading load rack.

b. The permittee shall ensure that loading operations are made into tank trucks equipped with vapor collection equipment that is compatible with the terminal's vapor collection system.

c. The vapor collection and liquid loading equipment shall be designed and operated to prevent gauge pressure in the delivery tank from exceeding 4,500 Pascals (450 mm of water) during product loading. This level is not to be exceeded when measured by the procedures specified in 40 CFR §60.503(d).

d. No pressure-vacuum vent in the bulk gasoline terminal's vapor collection system shall begin to open at a system pressure less than 4,500 Pascals (450 mm of water).

e. The vapor collection system shall be designed to prevent any total organic compound vapors collected at the bottom loading load rack from passing to another load rack.

(Auth.: HAR §11-60.1-3, §11-60.1-5 §11-60.1-90, §11-60.1-161; 40 CFR §60.502, §60.503)[1]

5. Vapor Combustion System

a. Emissions to the atmosphere from the vapor combustion system shall not exceed thirty-five (35) milligrams of total organic compounds per liter (35 mg/l) of gasoline loaded.

b. For any six (6) minute averaging period, the vapor combustion system shall not exhibit visible emissions of twenty (20) percent opacity or greater, except as follows: during startup, shutdown, or equipment breakdown, the vapor combustion system may exhibit visible emissions greater than twenty (20) percent opacity but not exceeding sixty (60)

percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

c. The vapor combustion system shall be fully functional and operational at all times whenever tank trucks are loaded at the bottom loading load rack. A pilot flame, as detected by the flame scanner, shall be present during each operation to load tank trucks.

d. The vapor combustion system shall be operated and maintained in accordance with manufacturer's specifications, or as needed, and inspected in accordance with Attachment IIE, Special Condition No. D.8.

(Auth.: HAR §11-60.1-3, HAR §11-60.1-5, §11-60.1-32, §11-60.1-90, §11-60.1-161; 40 CFR §60.502)[1]

6. Repairs

Any leaks or defects detected at the facility during the monthly inspection required by Attachment IIE, Special Condition No. D.8, shall be repaired within **fifteen (15) calendar days** after it is detected.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.502; SIP §11-60-15)[1,2]

Section D. Monitoring and Recordkeeping Requirements

1. Records

All records, including but not limited to, measurements and monitoring data, performance test results, inspections, maintenance performed, support information, reports required by permit, and all other information required by 40 CFR Part 60, Subpart XX, shall be true, accurate, and maintained in a permanent form suitable for inspection and made available to the Department of Health or its representative(s) upon request. All records shall be retained for **at least five (5) years** following the date of such measurements, calibration, sample, maintenance, or reports.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

2. Load Rack Throughput

The permittee shall install, operate, and maintain a non-resetting flow meter for the bottom loading load rack to permanently measure and record the throughput of each product loaded. The non-resetting flow meter shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or meter replacement of any existing non-resetting meters shall be designed to accommodate a minimum of five (5) years of equipment operation, considering any operational limitations,

before the meter returns to a zero reading. A record of daily throughput of each product shall be maintained and the cumulative product throughput on a monthly and rolling twelve-month (12-month) basis shall be reported in accordance with Attachment IIE, Special Condition Nos. E.3 and E.4.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

3. Flame Monitor

The permittee shall maintain and operate a flame scanner for the vapor combustion system to detect the presence of a pilot flame during tank truck loading operations. Maintenance or servicing shall be performed on the vapor combustion system if the flame scanner indicates the pilot assembly is not igniting during operations to load cargo tanks.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)

4. Tank Truck Vapor Tightness

The permittee shall maintain a tank truck vapor tightness documentation file on each gasoline tank truck to be loaded at the facility for purposes of the requirements specified in Attachment IIE, Special Condition No. C.3. The file for each gasoline tank truck shall be updated at least once per year to reflect current test results as determined by 40 CFR Part 60, Appendix A, Method 27, Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test. This documentation file shall include, at a minimum, the following information:

a. Test title: Gasoline Delivery Tank Pressure Test - EPA Reference Method 27;
b. Tank owner and address;
c. Tank identification number;
d. Testing location;
e. Date of test;
f. Tester name and signature;
g. Witnessing inspector, if any: name, signature, and affiliation; and
h. Test results: actual pressure change in five (5) minutes, as measured in mm of water (average for two (2) runs).

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.505; SIP §11-60-15)[1,2]

5. Pressure Measurement

The permittee shall operate and maintain a pressure measurement device (e.g., liquid manometer, magnehelic gauge, or equivalent instrument), capable of measuring up to 500 mm of water gauge pressure with ± 2.5 mm of water precision for purposes of the requirements specified Attachment IIE, Special Condition No. C.4. The device shall be

calibrated and installed on the terminal's vapor collection system at a pressure tap located as close as possible to the connection with the gasoline tank truck.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.503; SIP §11-60-15)[1,2]

6. Maintenance

The permittee shall keep maintenance records of all component replacements and additions for the vapor collection system, vapor combustion system, and bottom loading load rack.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161, 40 CFR §60.505; SIP §11-60-15)[1,2]

7. Tank Truck Owner Notification

The permittee shall keep documentation of all notifications made to owners or operators of gasoline tank trucks that were found to be non-vapor tight, as required by Attachment IIE, Special Condition No. C.3.d.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90; 40 CFR §60.505; SIP §11-60-15)[1,2]

8. Monthly Leak Inspections

At least monthly, the vapor collection system, vapor combustion system, and the bottom loading load rack shall be inspected during the loading of gasoline tank trucks for total organic compound liquid or vapor leaks. For purposes of this paragraph, detection methods incorporating sight, sound, or smell are acceptable. Detection of leaks shall be documented. Inspection records shall include, at a minimum, the following information:

a. Date of inspection;
b. Findings - indicate either no leaks discovered or the location, nature, and severity of each leak;
c. Leak determination method;
d. Corrective action including date of repair and reason for any repair interval in excess of fifteen (15) days; and
e. Inspector's name and signature.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; §11-60.1-161; 40 CFR §60.502, §60.505; SIP §11-60-15)[1,2]

9. Visible Emissions

a. Except in those months where visible emissions observations are conducted by a certified reader for the annual observation of the vapor combustion system, the permittee shall conduct **monthly** (calendar month), visible emissions observations of the vapor combustion system to determine the presence of visible emissions during the

loading of tank trucks. The **Monitoring Report Form: Bottom Loading Load Rack,** shall be used for reporting. After initial start-up of the vapor combustion system, if visible emissions are observed during tank truck loading, visible emissions observations shall be conducted in accordance with Attachment IIE, Special Condition No. D.9.b.

b. Except in those months where visible emissions observations are conducted by a certified reader for the annual observations of the vapor combustion system and if visible emissions are observed pursuant to Attachment IIE, Special Condition D.9.a, the permittee shall conduct **monthly** (calendar month), visible emissions observations for the vapor combustion system in accordance with Method 9 or by use of a Ringelmann Chart as provided. For each month, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the visible emissions form requirements. If there are no visible emissions from the vapor combustion system, visible emissions observations shall be conducted in accordance with Attachment IIE, Special Condition D.9.a.

c. The permittee shall conduct annually (calendar year), visible emissions observations for the vapor combustion system by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9. For the annual observation, two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals. Records shall be completed and maintained in accordance with the visible emissions form requirements.

d. Upon written request and justification by the permittee, the Department of Health may waive the requirement for the annual visible emissions observation for the vapor combustion system. The waiver request is to be submitted prior to the required annual visible emissions observation and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior visible emissions observations indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous annual visible emissions observation.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

Section E. Notification and Reporting Requirements

1. Standard Condition Reporting

Notification and reporting pertaining to the following events shall be done in accordance with Attachment I, Standard Condition Nos. 16, 17 and 24, respectively:

a. Intent to shut down air pollution control equipment for necessary scheduled maintenance;
b. Emissions of air pollutants in violation of HAR, Chapter 11-60.1 or this permit (excluding technology-based emission exceedances due to emergencies); and

c. Permanent discontinuance of construction, modification, relocation, or operation of the facility covered by this permit.

(Auth.: HAR §11-60.1-8, §11-60.1-15, §11-60.1-16, §11-60.1-90; SIP §11-60-10, §11-60-16)[2]

2. Deviations

The permittee shall report **within five (5) working days** any deviations from permit requirements, including those attributed to upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. Corrective actions may include a requirement for testing, or more frequent monitoring, or could trigger implementation of a corrective action plan.

(Auth.: HAR §11-60.1-3, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall submit **annually** the total tons-per-year emitted of each regulated air pollutant, including hazardous air pollutants. The reporting of annual emissions is due **within sixty (60) days following** the end of each calendar year. Completion and submittal of the **Annual Emissions Report Form: Bottom Loading Load Rack**, shall be used for reporting.

Upon the written request of the permittee, the deadline for reporting annual emissions may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-90)

4. Monitoring Reports

The permittee shall submit **semi-annually** the following written reports to the Department of Health. The reports shall be submitted **within sixty (60) days after** the end of each semi-annual calendar period (January 1 - June 30 and July 1 - December 31). The enclosed **Monitoring Report Form: Bottom Loading Load Rack** and **Monitoring Report Form: Opacity Exceedances**, shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; SIP §11-60-15)[2]

5. Performance Testing

a. **At least thirty (30) days prior** to conducting a source performance test required by Attachment IIE, Special Condition F.1, the permittee shall submit a test plan notifying the Department of Health of the event and the procedures for the performance test. Notification shall be in accordance with Attachment IIE, Special Condition No. F.5.

b. **Within sixty (60) days after** completion of a source performance test, the permittee shall submit the test results as specified in Attachment IIE, Special Condition No. F.6.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.503; SIP §11-60-15)[1,2]

6. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached **Compliance Certification Form** pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

a. The identification of each term or condition of the permit that is the basis of the certification;
b. The compliance status;
c. Whether compliance was continuous or intermittent;
d. The methods used for determining the compliance status of the source currently and over the reporting period;
e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification, including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
f. Any additional information as required by the Department of Health, including information to determine compliance.

The compliance certification shall be submitted within **ninety (90) days after** the end of each calendar year and shall be signed and dated by a responsible official.

Upon the written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section F. Testing Requirements

1. Annual Performance Testing

On an annual basis, or at such other times as determined by the Department of Health, the permittee shall conduct or cause to be conducted performance tests on the bottom loading

load rack to determine compliance with Attachment IIE, Special Conditions Nos. C.4.c and C.5.a.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8, §60.503; SIP §11-60-15)[1,2]

2. Testing Expense and Monitoring

The permittee shall provide sampling and testing facilities at its own expense and the Department of Health may monitor the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-15, §11-60.1-16, §11-60.1-90)

3. Test Procedures

a. To determine compliance with Attachment IIE, Special Condition No. C.4.c, during the performance test, the pressure shall be recorded every five (5) minutes while a gasoline tank truck is being loaded; the highest instantaneous pressure that occurs during each loading shall also be recorded. Every loading position must be tested at least once during the performance test.

b. Compliance with Attachment IIE, Special Condition No. C.5.a, shall be determined as follows:

i. The performance test shall be six (6) hours long during which at least 300,000 liters of gasoline shall be loaded. If this is not possible, the test may be continued the same day until 300,000 liters of gasoline are loaded or the test may be resumed the next day with another complete six-hour (6-hour) period. In the later case, the 300,000 liter criterion need not be met. As much as possible, testing should be conducted during the six-hour (6-hour) period in which the highest throughput normally occurs;

ii. If the vapor processing system is intermittent in operation, the performance test shall begin at a reference vapor holder level and shall end at the same reference point. The test shall include at least two (2) startups and shutdowns of the vapor processor. If this does not occur under automatically controlled operations, the system shall be manually controlled;

iii. The emission rate (E) of total organic compounds shall be computed using the equation described in 40 CFR Part 60, §60.503(c)(3); and

v. The performance test shall be conducted in intervals of five (5) minutes. For each interval “I,” readings from each measurement shall be recorded, and the volume exhausted (V_{esi}) and the corresponding average total organic compounds concentration (C_{ei}) shall be determined. The sampling system response time shall be considered in determining the average total organic compounds concentration corresponding to the volume exhausted.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8; SIP §11-60-15)[1,2]

4. Test Methods

Performance tests shall be conducted and results reported in accordance with the test methods and procedures set forth in 40 CFR §60.8, 40 CFR §60.503, and 40 CFR Part 60, Appendix A. The following test methods and provisions or EPA-approved equivalent test methods shall be used:

a. Method 21, Determination of Volatile Organic Compound Leaks. This procedure shall be performed immediately before the performance test to monitor leakage of vapors from all potential sources in the terminal's vapor collection system while a gasoline tank truck is being loaded. Any areas measured at 10,000 ppm (as methane) or greater, shall be repaired prior to conducting the performance test.

b. Method 2B, Determination of Exhaust Gas Volume Flow Rate From Gasoline Vapor Incinerators, shall be used for the combustion vapor processing system.

c. Method 2A, Direct Measurement of Gas Volume Through Pipes and Small Ducts, shall be used for all vapor processing system other than combustion vapor processing systems.

d. The following methods shall be used to determine the total organic compound concentration exiting the vapor combustion system:

   i. Method 25A, Determination of Total Gaseous Organic Concentration Using Flame Ionization Analyzer; or
   ii. Method 25B, Determination of Total Gaseous Organic Concentration Using a nondispersive infrared analyzer; and
   iii. The permittee may exclude the methane and ethane content in the exhaust vent by any approved method (e.g., Method 18).

e. Terminal records or readings from gasoline dispensing meters at the bottom loading load rack shall be used to determine the volume of gasoline dispensed during the performance test period.

f. Any deviations from these conditions, test methods, or procedures may be cause for rejection of the test results unless such deviations are approved by the Department of Health before the tests.

(Auth.: HAR §11-60.1-3, §11-60.1-11, and §11-60.1-90; 40 CFR §60.8, §60.503; SIP §11-60-15)[1,2]

5. Performance Test Plan

At least thirty (30) days prior to conducting the performance test, the permittee shall submit a written performance test plan to the Department of Health that includes date(s) of the test, test duration, test methods, source operation, and any other parameters that may

affect the test results. A test plan that does not have the approval of the Department of Health may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.8)[1]

6. Performance Test Report

Within sixty (60) days after completion of the performance test, the permittee shall submit to the Department of Health the test report which includes the operating conditions of the bottom loading load rack and the vapor combustion system at the time of the test (e.g., gasoline throughput), the summarized test results, other pertinent support calculations, and field/laboratory data.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.503; SIP §11-60-15)[1,2]

7. Performance Test Waiver

Upon written request and justification, the Department of Health may waive the requirement for a specific annual source performance test required by Attachment IIE, Special Condition No. F.1. The waiver request is to be submitted prior to the required source test and must include documentation justifying such action. Documentation should include, but is not limited to, the results of the prior test indicating compliance by a wide margin, documentation of continuing compliance, and further that operations of the source have not changed since the previous source performance test.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section G. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be in accordance with Attachment I, Standard Condition No. 28.

(Auth.: HAR §11-60.1-4 and §11-60.1-90)

[1] The citations to the Code of Federal Regulations (CFR) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the CFR. Due to the integration of the preconstruction and operating permits, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

[2] The citations to the State Implementation Plan (SIP) identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.

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ATTACHMENT II – INSIG: SPECIAL CONDITIONS
INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In addition to the standard conditions of the covered source permit, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

1. Attachment II – INSIG encompasses the following insignificant activities:

   a. 5,683 barrel vertical fixed cone roof Tank No. 3 ;
   b. 10,641 barrel vertical fixed cone roof Tank No. 14;
   c. 2,000 barrel vertical fixed roof Tank No. 13;
   d. 418 barrel vertical fixed cone roof Tank No. 16;
   e. 33,090 barrel vertical fixed cone roof Tank No. 21;
   f. 168 barrel horizontal fixed roof additive Tank No. 101;
   g. 500 gallon transmix tank;
   h. 499 gallon propane tank;
   i. two (2) 400 gallon portable tote tanks;
   j. 7,000 gallon concrete sump; and
   k. AFL oil water separator.

   (Auth.: HAR §11-60.1-3)

Section B. Operational Limitations

1. The permittee shall take measures to operate applicable insignificant activities in accordance with the provisions of HAR, Subchapter 2.

   (Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)

2. The Department of Health may at any time require the permittee to further abate emissions if an inspection indicates poor or insufficient controls.

   (Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-82, §11-60.1-90)

Section C. Monitoring and Recordkeeping Requirements

1. The Department of Health reserves the right to require monitoring, recordkeeping, or testing of any insignificant activity to determine compliance with the applicable requirements.

   (Auth.: HAR §11-60.1-3, §11-60.1-90)

2. All records shall be maintained for at least five (5) years from the date of any required monitoring, recordkeeping, testing, or reporting. These records shall be in a permanent

form suitable for inspection and made available to the Department of Health or their authorized representative upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90)

Section D. Notification and Reporting

1. During the permit term, the permittee shall submit at least **annually** to the Department of Health and U.S. EPA, Region 9, the attached Compliance Certification Form pursuant to HAR, Subsection 11-60.1-86. The permittee shall indicate whether or not compliance is being met with each term or condition of this permit. The compliance certification shall include, at a minimum, the following information:

   a. The identification of each term or condition of the permit that is the basis of the certification;
   b. The compliance status;
   c. Whether compliance was continuous or intermittent;
   d. The methods used for determining the compliance status of the source currently and over the reporting period;
   e. Any additional information indicating the source's compliance status with any applicable enhanced monitoring and compliance certification including the requirements of Section 114(a)(3) of the Clean Air Act or any applicable monitoring and analysis provisions of Section 504(b) of the Clean Air Act; and
   f. Any additional information as required by the Department of Health including information to determine compliance.

The compliance certification shall be submitted **within ninety (90) days** after the end of each calendar year, and shall be signed and dated by an responsible official.

Upon written request of the permittee, the deadline for submitting the compliance certification may be extended, if the Department of Health determines that reasonable justification exists for the extension.

In lieu of addressing each emission unit as specified in **Compliance Certification Form**, the permittee may address insignificant activities as a single unit provided compliance is met with all applicable requirements. If compliance is not totally attained, the permittee shall identify the specific insignificant activity and provide the details associated with the noncompliance.

(Auth.: HAR §11-60.1-4, §11-60.1-86, §11-60.1-90)

Section E. Agency Notification

1. Any document (including reports) required to be submitted by this covered source permit shall be done in accordance with Attachment I, Standard Condition No. 28.

   (Auth.: HAR §11-60.1-4, §11-60.1-90)

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ATTACHMENT III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

The following requirements for the submittal of annual fees are established pursuant to HAR, Title 11, Chapter 60.1, Air Pollution Control. Should HAR, Chapter 60.1 be revised such that

1. Annual fees shall be paid in full:

   a. Within **sixty (60) days** after the end of each calendar year; and
   b. Within **thirty (30) days** after the permanent discontinuance of the covered source.

2. The annual fees shall be determined and submitted in accordance with Hawaii Administrative Rules, Chapter 11-60.1, Subchapter 6.

3. The annual emissions data for which the annual fees are based shall accompany the submittal of any annual fees and submitted on forms furnished by the Department of Health.

4. The annual fees and the emission data shall be mailed to:

Clean Air Branch
Environmental Management Division
Hawaii Department of Health
919 Ala Moana Boulevard, Room 203
Honolulu, HI 96814

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ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of health the nature and amounts of emissions.

1. Complete the attached forms:

   Annual Emissions Report Form: Storage Tanks
   Annual Emissions Report Form: Bottom Loading Load Rack

2. The reporting period shall be from January 1 to December 31 of each year. All reports shall be submitted to the Department of Health within **sixty (60) days** after the end of each calendar year and shall be mailed to the following address:

   Clean Air Branch
   Environmental Management Division
   Hawaii Department of Health
   919 Ala Moana Boulevard, Room 203
   Honolulu, HI 96814

3. The permittee shall retain the information submitted, including all emission calculations. These records shall be in a permanent form suitable for inspection, retained for a minimum of five (5) years, and made available to the Department of Health upon request.

4. Any information submitted to the Department of Health without a request for confidentiality shall be considered public record.

5. In accordance with HAR, Section 11-60.1-14, the permittee may request confidential treatment of specific information including information concerning secret processes or methods of manufacturing, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.

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COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0080-01-C
PAGE 1 OF ___

Issuance Date: **Expiration Date:**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following certification at least annually, or more frequently as requested by the Department.

(Make Copies of the Compliance Certification Form for Future Use)

For Period: _____ Date: _____

Company/Facility Name: _____

Responsible Official (Print): _____

Title: _____

Responsible Official (Signature): _____

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by Department of Health as public record. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

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COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0080-01-C
(CONTINUED, PAGE 2 OF ___)

Issuance Date: **Expiration Date:**

The purpose of this form is to evaluate whether or not the facility was in compliance with the permit terms and conditions during the covered period. If there were any deviations to the permit terms and conditions during the covered period, the deviation(s) shall be certified as *intermittent compliance* for the particular permit term(s) or condition(s). Deviations include failure to monitor, record, report, or collect the minimum data required by the permit to show compliance. In the absence of any deviation, the particular permit term(s) or condition(s) may be certified as *continuous compliance*.

Instructions:
Please certify Sections A, B, and C below for continuous or intermittent compliance. Sections A and B are to be certified as a group of permit conditions. Section C shall be certified individually for each operational and emissions limit condition as listed in the Special Conditions section of the permit (list all applicable equipment for each condition). Any deviations shall also be listed individually and described in Section D. The facility may substitute its own generated form in verbatim for Sections C and D.

A. Attachment I, Standard Conditions

Permit term/condition	Equipment	Compliance
All standard conditions	All Equipment listed in the permit	Continuous Intermittent

B. Special Conditions - Monitoring, Recordkeeping, Reporting, Testing, and INSIG

Permit term/condition	Equipment	Compliance
All monitoring conditions	All Equipment listed in the permit	Continuous Intermittent
All recordkeeping conditions	All Equipment listed in the permit	Continuous Intermittent
All reporting conditions	All Equipment listed in the permit	Continuous Intermittent
All testing conditions	All Equipment listed in the permit	Continuous Intermittent
All INSIG conditions	All Equipment listed in the permit	Continuous Intermittent

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COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0080-01-C
(CONTINUED, PAGE ____ OF ___)

Issuance Date: **Expiration Date:**

C. Special Conditions - Operational and Emissions Limitations

Each permit term/condition shall be identified in chronological order using attachment and section numbers (e.g., Attachment II, B.1, Attachment IIA, Special Condition No. B.1.f, etc.). Each equipment shall be identified using the description stated in Section A of the Special Conditions (e.g., unit no., model no., serial no., etc.). Check all methods (as required by permit) used to determine the compliance status of the respective permit term/condition.

Permit term/condition	Equipment	Method	Compliance
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent
		monitoring recordkeeping reporting testing none of the above	Continuous Intermittent

(Make Additional Copies if Needed)

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COMPLIANCE CERTIFICATION FORM
COVERED SOURCE PERMIT NO. 0080-01-C
(CONTINUED, PAGE ___ OF ___)

Issuance Date: **Expiration Date:**

D. Deviations

Permit Term/ Condition	Equipment / Brief Summary of Deviation	Deviation Period time (am/pm) & date (mo/day/yr)	Date of Written Deviation Report to DOH (mo/day/yr)
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	
		Beginning: Ending:	

(Make Additional Copies if Needed)

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ANNUAL EMISSIONS REPORT FORM
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0080-01-C
(PAGE 1 OF 2)

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. Report the following information for the reporting period:

TANK & PRODUCT DESCRIPTION	**TANK NUMBER**								
	1			**2**			**4**		
TANK CAPACITY (barrels)									
TANK DIAMETER (feet)									
DECK TYPE (bolted/welded)									
PRODUCT NAME	1			1			1		
	2			2			2		
	3			3			3		
TRUE VAPOR PRESSURE (psia)	1	2	3	1	2	3	2	3	
LIQUID MOLECULAR WEIGHT									
VAPOR MOLECULAR WEIGHT									
AVG. STORAGE TEMPERATURE (^{o}F)									
	1			1			1		
	2			2			2		
	3			3			3		

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ANNUAL EMISSIONS REPORT FORM
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0080-01-C
(CONTINUED, PAGE 2 OF 2)

Issuance Date: **Expiration Date:**

1. Report the following information for the reporting period (continued):

TANK & PRODUCT DESCRIPTION	TANK NUMBER					
	5			12		
TANK CAPACITY (barrels)						
TANK DIAMETER (feet)						
DECK TYPE (bolted/welded)						
PRODUCT NAME	1			1		
	2			2		
	3			3		
TRUE VAPOR PRESSURE (psia)	1	2	3	1	2	3
LIQUID MOLECULAR WEIGHT						
VAPOR MOLECULAR WEIGHT						
AVG. STORAGE TEMPERATURE (^{o}F)						
	1			1		
	2			2		
	3			3		

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ANNUAL EMISSIONS REPORT FORM
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the nature and amounts of emissions.

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. Report the product throughput for the reporting period in the following table:

Product	**Total Throuhput (barrels/yr)**
Aviation Gasoline	
Ethanol	
Motor Gasoline	
Naphtha (Whole Straight Run Gasoline)	
High Sulfur Diesel	
Low Sulfur Diesel	
Jet A	
Other	

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MONITORING REPORT FORM
EQUIPMENT LEAKS (by January 10, 2011)
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. For equipment leak inspection and repair performed in accordance with Attachment IIA, report each leak not repaired within 15 days after detection:

Leak Detection Date	Equipment Type and Identification Number	Reasons Why Repair not Feasible	Date Repair Completed

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MONITORING REPORT FORM
STORAGE TANKS
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. Report true vapor pressure exceedances above 11 psia for the reporting period:

Tank No.	True Vapor Pressure (psia)	How Determined	Type of Fuel Stored	Period of Exceedance	Storage Temperature (^{O}F)

2. Report a summary of tank inspection for the reporting period:

Tank No.	Inspection Date	Deficiencies/Defects Description	Date and Repair Made	Date Tank was Last Emptied

3. For the reporting period attach the following information as applicable:

   a. Information required for Tank Nos. 1, 5, and 12, from 40 CFR Part 60, §60.115b(b).

   b. Information required for Tank Nos. 2 and 4 from 40 CFR Part 60, §60.115b(b) for complying with option 2(b) in Table 1 of 40 CFR Part 63, Subpart BBBBBB.

   c. Information required for Tank Nos. 2 and 4 from 40 CFR Part 63, §63.1066 for complying with option 2(d) in Table 1 of 40 CFR Part 63, Subpart BBBBBB.

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MONITORING REPORT FORM
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C
(PAGE 1 OF 3)

Issuance Date: **Expiration Date:**

In accordance with HAR, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. Report the bottom loading load rack throughput for the reporting period:

Month	Product			
	All Grades of Unleaded Gasoline (barrels)[a]	Aviation Gasoline (barrels)	WSR Gasoline /Naphtha (barrels)	Total Combined Gasoline Throughput 12-Month Rolling Basis (barrels)
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				

a: Gasoline throughput includes denatured ethanol blended with gasoline for E10 mixture (10% ethanol and 90% gasoline).

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MONITORING REPORT FORM
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C
(PAGE 2 OF 3)

Issuance Date: **Expiration Date:**

2. For inspections performed in accordance with Attachment IIC, Special Condition No. D.6 or Attachment IIE, Special Condition Nos. D.8, report the following for the reporting period:

Month	Inspection Date	Leaks Detected (Yes/No)	Nature of Leak or Defect	Leak Determination Method	Date and Repair Description
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

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MONITORING REPORT FORM
BOTTOM LOADING LOAD RACK
COVERED SOURCE PERMIT NO. 0080-01-C
(PAGE 3 OF 3)

Issuance Date: **Expiration Date:**

3. Report each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained.

Cargo Tank Identification Number	Notes

4. Report each incidence when visible emissions were observed from the vapor combustion system:

Date of Observation	Visible Emissions Description (e.g., light, heavy, white, grey, black)

5. Report the gasoline throughput for the reporting period in gallons per day:_____

6. Report the maximum distance of a fill pipe from the bottom of any one gasoline cargo tank loaded at the terminal in inches: _____

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EXCESS EMISSIONS REPORT FORM
EQUIPMENT LEAKS (by January 10, 2011)
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually.

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. For each occurrence of an equipment leak for which no repair attempt was made within five (5) days or for which repair was not completed within fifteen (15) days after detection, provide the information requested below.

   a. The date on which the leak was detected:_____

   b. The date of each attempt to repair the leak:_____

   c. The reasons for the delay of repair:_____

   _____

   _____

   _____

   _____

   _____

   d. The date of successful repair: _____

   _____

   _____

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EXCESS EMISSIONS REPORT FORM
BOTTOM LOADING LOAD RACK (by January 10, 2011)
COVERED SOURCE PERMIT NO. 0080-0-C

Issuance Date: **Expiration Date:**

In accordance with Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually.

(Make Copies for Additional Use)

For Reporting Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (print):_____

Title:_____

Responsible Official (signature)_____

1. Report in the following table, each instance of a non-vapor-tight gasoline cargo tank loading at the facility in which there was failure to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.

Cargo Tank Identification Number	Date of Loading

2. Report in the following table, each reloading of a non-vapor-tight cargo tank before vapor tightness documentation for that cargo tank is obtained in accordance with 40 CFR §63.11094(b).

Cargo Tank Identification Number	Date of Loading

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MONITORING REPORT FORM
OPACITY EXCEEDANCES
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

In accordance with the Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health the following information semi-annually:

(Make Copies for Additional Use)

For Period:_____ Date:_____

Company: Chevron Products Company

Facility Name: Port Allen Marketing Terminal

I certify that I have knowledge of the facts herein set forth, that the same are true, accurate, and complete to the best of my knowledge and belief, and that all information not identified by me as confidential in nature shall be treated by the Department of Health as public record.

Responsible Official (Print):_____

Title:_____

Responsible Official (Signature):_____

Visible Emissions:

Report the following on the lines provided below: all date(s) and six (6) minute average opacity reading(s) which the opacity limit was exceeded during the monthly observations; or if there were no exceedances during the monthly observations, then write "no exceedances" in the comment column.

EQUIPMENT or EMISSION POINT DESCRIPTION	SERIAL/ID NO.	DATE	6 MIN. AVER. (%)	COMMENTS

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VISIBLE EMISSIONS FORM REQUIREMENTS
STATE OF HAWAII
COVERED SOURCE PERMIT NO. 0080-01-C

Issuance Date: **Expiration Date:**

The Visible Emissions Form shall be completed **monthly** (each calendar month) for the vapor combustion system in accordance with 40 CFR Part 60, Appendix A, Method 9 or use of a Ringelmann Chart as provided. At least **annually** (calendar year), visible emissions observations shall be conducted for the vapor combustion system by a certified reader in accordance with Method 9. The Visible Emissions Form shall be completed as follows:

1. Visible emissions observations shall take place during the day only and shall be compared to the Ringelmann Chart provided. The opacity shall be noted in five (5) percent increments (e.g., 25%).
2. Orient the sun within a 140 degree sector to your back. Provide a source layout sketch on the Visible Emissions Form using the symbols as shown.
3. For visible emissions observations of the stack, stand at least three (3) stack heights but not more than a quarter mile from the stack.
4. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.
5. The six (6) minute average opacity reading shall be calculated for each observation.
6. If possible, the observations shall be performed as follows:
   a. Read from where the line of sight is at right angles to the wind direction.
   b. The line of sight shall not include more than one (1) plume at a time.
   c. Read at the point in the plume with the greatest opacity (without condensed water vapor), ideally while the plume is no wider than the stack diameter.
   d. Read the plume at fifteen (15) second intervals only. Do not read continuously.
   e. The equipment shall be operating at the maximum permitted capacity.
7. If the equipment was shut-down for that period, briefly explain the reason for shut-down in the comment column.

The permittee shall retain the completed Visible Emissions Forms for recordkeeping. These records shall be in a permanent form suitable for inspection, retained for a minimum of five years, and made available to the Department of Health, or its representative upon request.

Any required initial and annual performance test performed in accordance with Method 9 by a certified reader shall satisfy the respective equipment's visible emissions monitoring requirements for the month the performance test is performed.

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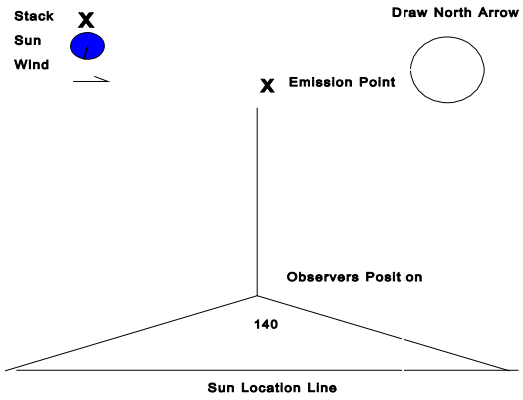
VISIBLE EMISSIONS FORM
COVERED SOURCE PERMIT NO. 0080-01-C
VAPOR COMBUSTION UNIT

Issuance Date: **Expiration Date:**

(Make Copies for Future Use for Each Stack or Emission Point)

Company Name: Chevron Products Company

Describe equipment and fuel:_____



Site Conditions:

Stack height above ground (ft):_____

Stack distance from observer (ft):_____

Emission color (black or white):_____

Sky conditions (% cloud cover):_____

Wind speed (mph):_____

Temperature (°F):_____

Observer Name:_____

Certified? (Yes/No):_____

Observation Date and Start Time:_____

Method of observation (Ringelmann Chart or Method 9):_____

	Seconds				
MINUTES	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

Observation Date and Start Time:_____

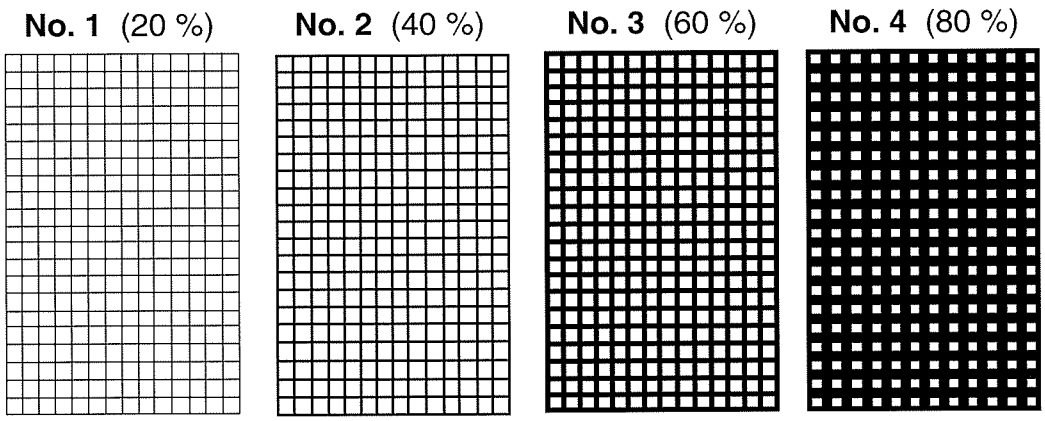
Method of observation (Ringelmann Chart or Method 9):_____

	Seconds				
MINUTES	0	15	30	45	COMMENTS
1					
2					
3					
4					
5					
6					
Six (6) Minute Average Opacity Reading (%):					

The Ringelmann Chart

In the late 1800's in Paris, France, Professor Maximilian Ringelmann developed the **Ringelmann Chart** to measure the combustion efficiency of coal-fired boilers. The shade of the smoke plume shows how well a boiler is operating - the poorer its combustion efficiency, the more unburned carbon particles in the smoke and the darker the plume.

Professor Ringelmann's chart established four measured shades of gray between white, valued at zero, and black, at five. These specific shades of gray, Ringelmann No. 1 to Ringelmann No. 4, can be accurately reproduced by placing a grid of black lines of a given width and spacing on a white background. Viewed from a distance, the grid lines and background merge into the shades of gray, to be compared to the shade of the smoke plume.



Ringelmann Chart (not to scale)

Regulating Visible Emissions

The Ringelmann Chart became one of the first tools used to measure visible emissions. Introduced into the United States in 1897, it was soon accepted as the standard measure of smoke density and was used by engineers for power plant testing and smokeless combustion studies. In 1910, the Chart was officially adopted as part of the Smoke Ordinance for Boston, Mass.

Many city, state, and federal regulations now set smoke density limits based on the Ringelmann Smoke Chart. Although not originally designed as a regulatory tool to control air pollution, it gives good practical results when used by well-trained observers.