

PROPOSED

[Amended Date]

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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07-xxxE CAB
File No. 0088-12

Mr. Thomas M. Kovar
Refinery Manager
Chevron USA Products Company
Hawaii Refinery
91-480 Malakole Street
Kapolei, Hawaii 96707-1883

Dear Mr. Kovar:

Subject: Amendment of Covered Source Permit (CSP) No. 0088-01-C
Minor Modification Application No. 0088-12
Domed Roof Installation for Petroleum Storage Tank No. 275
Chevron USA Products Company
Petroleum Refinery
Located at 91-480 Malakole Street, Kapolei, Oahu
Date of Expiration: June 27, 2011

In accordance with Hawaii Administrative Rules, Chapter 11-60.1 and pursuant to your application for a Minor Modification dated August 9, 2006, the Department of Health hereby amends Covered Source Permit (CSP) No. 0088-01-C issued to Chevron USA Products Company. The amendment allows the installation of a domed roof on the existing external floating roof petroleum storage tank no. 275.

The enclosed Attachment II(B) supersedes the corresponding Attachment II(B) issued with CSP No. 0088-01-C dated February 22, 1999 and amended on January 22, 2002, April 16, 2002, March 3, 2003, June 28, 2006 and April 24, 2007. All other permit conditions issued with CSP No. 0088-01-C shall not be affected and shall remain valid. A receipt for the application filing fee of \$200.00 is enclosed.

If there are any questions regarding these matters, please contact Mr. Darin Lum of the Clean Air Branch at (808) 586-4200.

Sincerely,

THOMAS E. ARIZUMI, P.E., CHIEF
Environmental Management Division

DL/
Enclosures

c: CAB Monitoring Section

**ATTACHMENT II(B): SPECIAL CONDITIONS
COVERED SOURCE PERMIT NO. 0088-01-C**

PETROLEUM STORAGE TANKS

[Amended Date]

[Expiration Date: June 27, 2011]

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. This portion of the Covered Source Permit encompasses the following equipment and associated appurtenances:
 - a. Twenty-Seven (27) Gasoline Intermediates and Finished Products Storage Tanks
 - i. One (1) - 272,000 bbl external floating roof storage tank identified as Tank 111;
 - ii. Two (2) - 19,200 bbl external floating roof storage tanks identified as Tanks 232 and 235;
 - iii. Two (2) - 19,000 bbl external floating roof storage tanks identified as Tanks 233 and 273;
 - iv. Four (4) - 38,000 bbl external floating roof storage tanks identified as Tanks 236, 237, 255, and 256;
 - v. One (1) - 9,500 bbl external floating roof storage tanks identified as Tank 251;
 - vi. One (1) - 37,000 bbl external floating roof storage tank identified as Tank 252;
 - vii. One (1) - 37,400 bbl external floating roof storage tank identified as Tank 253;
 - viii. One (1) - 33,000 bbl external floating roof storage tank identified as Tank 254;
 - ix. Three (3) - 29,000 bbl external floating roof storage tanks identified as Tanks 257, 258, and 262;
 - x. Three (3) - 41,000 bbl external floating roof storage tanks identified as Tanks 264, 265, and 266;
 - xi. One (1) - 23,000 bbl external floating roof storage tank identified as Tank 269;
 - xii. One (1) - 36,000 bbl external floating roof storage tank identified as Tank 271;
 - xiii. Two (2) - 4,700 bbl external floating roof storage tanks identified as Tanks 162 and 163;
 - xiv. One (1) - 235,000 bbl external floating roof storage tank identified as Tank 109;
 - xv. One (1) - 9,500 bbl external floating roof storage tank converted to an internal floating roof storage tank identified as Tank 249; and
 - xvi. Two (2) - 5,000 bbl external floating roof storage tanks converted to internal floating roof storage tanks identified as Tanks 250 and 275.

- b. Eight (8) Crude Oil Storage Tanks
 - i. One (1) - 149,000 bbl external floating roof storage tank identified as Tank 104;
 - ii. Two (2) - 237,000 bbl external floating roof storage tanks identified as Tanks 105 and 107;
 - iii. Two (2) - 235,000 bbl external floating roof storage tanks identified as Tanks 106 and 108;
 - iv. One (1) - 272,000 bbl external floating roof storage tank identified as Tank 110;
 - v. One (1) - 23,000 bbl external floating roof storage tank identified as Tank 113; and
 - vi. One (1) - 81,250 bbl vertical fixed roof storage tank identified as Tank 152.

- c. Three (3) Jet Fuel Storage Tanks
 - i. One (1) - 50,827 bbl vertical fixed roof storage tank identified as Tank 274;
 - ii. One (1) - 38,000 bbl external floating roof storage tank identified as Tank 263; and
 - iii. One (1) - 41,000 bbl external floating roof storage tank identified as Tank 267.

(Auth.: HAR §11-60.1-3)

- 2. The permittee shall permanently attach an identification tag or nameplate on each tank. The identification tag or nameplate shall be attached to the tank in a conspicuous location. Information shall also be made available upon request that identifies the capacity, date of construction, serial number or I.D. number and manufacturer of each tank.

(Auth.: HAR §11-60.1-5, §11-60.1-90)

Section B. Applicable Federal Regulations.

- 1. Each of the storage tanks identified in Section A of this Attachment are subject to the provisions of the following federal regulations:
 - a. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT),
 - i. Subpart A, General Provisions; and
 - ii. Subpart CC, National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries

For Group 1 storage tanks (all storage tanks except for Storage tanks 152, 263, 267, and 274), the permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, reporting, monitoring, testing and recordkeeping requirements, at the first tank degassing and cleaning activity after August 18, 1998, or before August 18, 2005, whichever comes first. The major requirements of these standards are detailed in **Section G - 40 CFR Part 63, Subpart CC Requirements** of this Attachment. Group 1 storage tanks shall comply with Sections C through G below. Group 2 storage tanks (Storage tanks 152, 263, 267 and 274) shall comply with Sections C through F below.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174, 40 CFR §63.640, §63.646)¹

Section C. Operational and Emissions Limitations.

1. The true vapor pressure of the volatile organic liquid stored in each of the storage tanks identified in Special Condition A.1.a. of this Attachment shall not be greater than or equal to 11.0 pounds per square inch absolute (psia).

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

2. The true vapor pressure of the volatile organic liquid stored in Storage Tanks 152 and 274 shall not be greater than or equal to 1.5 pounds per square inch absolute (psia).

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

3. Storage tanks identified in Special Condition No. A.1.b. of this Attachment shall only store crude oil.

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

4. Storage tanks identified in Special Condition No. A.1.c. of this Attachment shall only store jet fuel.

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

5. Each storage tank identified in Section A of this Attachment, except for Storage Tanks 152 and 274, shall be equipped with a floating roof which will rest on the surface of the liquid contents and be equipped with a closure seal or seals to close the space between the roof edge and tank wall.

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

6. All tank gauging and sampling devices for each of the storage tanks identified in Section A of this Attachment, except for Storage Tanks 152 and 274, 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)

7. Each storage tank identified in Section A of this Attachment shall be equipped with a permanent submerged fill pipe.

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

8. The permittee may increase the storage capacities of Storage Tanks 105 through 111 by 12% to the capacities listed below, provided that no new applicable requirement is triggered by such action and the permittee has installed the seal requirements pursuant to 40 CFR Part 63, Subpart CC. The permittee must obtain prior written approval of the Department of Health and must demonstrate that a modification or reconstruction under NSPS or a PSD review would not be triggered.

Storage Tanks 105 and 107 - 265,440 bbl
Storage Tanks 106, 108 and 109 - 263,200 bbl
Storage Tanks 110 and 111- 304,640 bbl

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

Section D. Monitoring and Recordkeeping Requirements.

1. The permittee shall maintain a record of the volatile organic liquid stored, the period of storage, and the maximum true vapor pressure (psia) of that liquid for each storage tank identified in Section A of this Attachment.

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

2. The permittee shall keep readily accessible records showing the dimensions of each storage tank identified in Section A of this Attachment and an analysis showing the capacity of the storage tank. This record shall be kept as long as the storage tank retains Group 1 or Group 2 status and is in operation. If a storage tank is determined to be Group 2 because the weight percent total organic HAP of the stored liquid is less than or equal to 4 percent for existing sources, a record of any data, assumptions, and procedures used to make this determination shall be retained. The permittee shall use the Group 1 and Group 2 storage vessel definitions in 40 CFR §63.641.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §63.646, §63.654)¹

3. Records shall be retained for five (5) years in a permanent form suitable for inspection and made available to the Department of Health or their representatives upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90; 40 CFR §63.646, §63.654)¹

Section E. Notification and Reporting Requirements.

1. Annual Emissions

As required by Attachment IV and in conjunction with the requirements of Attachment III, Annual Fee Requirements, the permittee shall submit **on an annual basis** 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**. The enclosed **Annual Emissions Report Forms: External/Internal Floating Roof Petroleum Storage Tank, and Fixed Roof Petroleum Storage Tank** or equivalent forms, shall be used in reporting emissions.

Upon 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, §11-60.1-114)

2. Additional notification and reporting requirements shall be conducted in accordance with the standard conditions found in Attachment I, Standard Conditions 16, 17, and 25, respectively. These notifications shall include, but not be limited to:

- a. Intent to shutdown 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)

3. The permittee shall report **within five (5) working days** any deviations from permit requirements, including those attributable to upset conditions, the probable cause of such deviations and any corrective actions or preventative measures taken. Corrective actions may include a requirement for 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. Compliance Certification

During the permit term, the permittee shall submit at least **annually** to the Department of Health and EPA Region 9, the attached **Compliance Certification Form** pursuant to HAR §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 be submitted **within ninety (90) days after** the end of each calendar year, and shall be signed and dated by an authorized representative.

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.

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

5. The permittee shall notify the Department of Health at least **thirty (30) days** prior to:
 - a. Changing the volatile organic liquid stored in any of the storage tanks identified in Section A.1.a. of this Attachment; and
 - b. Increasing the storage capacity of Storage Tanks 105 thru 111 in accordance with Special Condition No. C.8. of this Attachment.

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

Section F. Agency Notifications.

Any document (including reports) required to be submitted by this Covered Source permit shall be in accordance with Attachment I, Standard Condition No. 29.

(Auth.: HAR §11-60.1-4, §11-60.1-90)

Section G. 40 CFR Part 63, Subpart CC Requirements

1. Operational and Emission Limitations
 - a. Group 1 storage tanks consisting of an external floating roof converted to an internal floating roof (petroleum storage tanks 249, 250 and 275) shall comply with the provisions of 40 CFR §63.646 including the following:
 - i. The internal floating roof shall rest or float on the liquid surface inside a storage tank that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage tank is completely emptied and degassed or subsequently emptied and refilled. When the floating roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as practical.
 - ii. The petroleum storage tanks shall be equipped with one of the following closure devices between the wall of the storage tank and the edge of the internal floating roof:
 - (1) A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal);
 - (2) Two 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

- (3) A mechanical shoe seal.
 - iii. If a cover or lid is installed on an opening on a floating roof, the cover or lid shall remain closed except when the cover or lid must be open for access.
 - iv. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seals exceeds the manufacturer's recommended setting.
 - v. Automatic bleeder vents are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
- b. Group 1 storage tanks with an external floating roof (petroleum storage tanks 104, 105, 106, 107, 108, 109, 110, 111, 113, 162, 163, 232, 233, 235, 236, 237, 251, 252, 253, 254, 255, 256, 257, 258, 262, 264, 265, 266, 269, 271 and 273) shall comply with the provisions of 40 CFR §63.646 including the following:
- i. Each external floating roof shall be equipped with a primary seal and secondary seal to close the space between the wall of the storage tank and roof edge. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. The primary and secondary seals shall completely cover the annular space between the edge of the floating roof and tank wall in a continuous fashion, except during the inspections required by Special Condition No. G.2.b. of this Attachment.
 - ii. The floating roof is to be floating on the liquid at all times (i.e., off the roof leg supports), except during initial fill until the floating roof is lifted off leg supports and during those intervals when the storage tank is completely emptied and degassed or when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the floating roof is resting on the leg supports shall be continuous and shall be accomplished as soon as practical.
 - iii. If a cover or lid is installed on an opening on a floating roof, the cover or lid shall remain closed except when the cover or lid must be open for access.
 - iv. Rim space vents are to be set to open only when the floating roof is not floating or when the pressure beneath the rim seals exceeds the manufacturer's recommended setting.

- v. Automatic bleeder vents are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.646)¹

2. Monitoring and Recordkeeping Requirements

- a. For the Group 1 storage tanks consisting of an external floating roof converted to an internal floating roof (petroleum storage tanks 249, 250 and 275), the permittee shall demonstrate compliance by complying with the requirements of 40 CFR §63.120(a)(1) through (a)(7) including the following:

- i. The permittee shall visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), according to the schedule specified below:

- (1) For storage tanks equipped with a single-seal system, the permittee shall perform the inspections specified below:

- (a) Visually inspect the internal floating roof and the seal through manholes and roof hatches on the fixed roof at least once every **twelve (12) months** after initial fill, or at least once every **twelve (12) months** after the compliance date specified in Special Condition No. B.1. of this Attachment; and
- (b) Visually inspect the internal floating roof, the seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage tank is emptied and degassed, and at least once every **ten (10) years** after the compliance date specified in Special Condition No. B.1. of this Attachment.

- (2) For storage tanks equipped with a double-seal system, the permittee shall perform either one of the inspections indicated below:

- (a) Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the storage tank is emptied and degassed and at least once every **five (5) years** after the compliance date specified in Special Condition No. B.1. of this Attachment; **or**
- (b) Visually inspect the internal floating roof and the secondary seal through manholes and roof hatches on the fixed roof at least once every **twelve (12) months** after initial fill, or

at least once every **twelve (12) months** after the compliance date specified in Special Condition No. B.1. of this Attachment, **and**

- (c) Visually inspect the internal floating roof, the primary seal, the secondary seal, gaskets, slotted membranes, and sleeve seals (if any) each time the vessel is emptied and degassed and at least once every **ten (10) years** after the compliance date specified in Special Condition No. B.1. of this Attachment.
- ii. If during the inspections required by Special Condition Nos. G.2.a.i.(1)(a) or G.2.a.i.(2)(b) of this Attachment, the internal floating roof is not resting on the surface of the liquid inside the storage tank and is not resting on the leg supports; or there is liquid on the floating roof; or the seal is detached; or there are holes or tears in the seal fabric; or there are visible gaps between the seal and the wall of the storage tank, the permittee shall repair the items or empty and remove the storage tank from service within **forty-five (45) calendar days**. If a failure that is detected during inspections required by Special Condition Nos. G.2.a.i.(1)(a) or G.2.a.i.(2)(b) of this Attachment cannot be repaired within **forty-five (45) calendar days** and if the tank cannot be emptied within **forty-five (45) calendar days**, the permittee may utilize up to 2 extensions of up to **thirty (30)** additional calendar days each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the tank will be emptied as soon as practical.
- iii. Except as provided in Special Condition No. G.2.a.iv. of this Attachment, for all the inspections required by Special Condition Nos. G.2.a.i.(1)(b), G.2.a.i.(2)(a), and G.2.a.i.(2)(c) of this Attachment, the permittee shall notify the Department of Health in writing at least **thirty (30) calendar days** prior to the refilling of each storage tank to afford the Department of Health the opportunity to have an observer present.
- iv. If the inspections required by Special Condition Nos. G.2.a.i.(1)(b), G.2.a.i.(2)(a), and G.2.a.i.(2)(c) of this Attachment is not planned and the permittee could not have known about the inspection **thirty (30) calendar days** in advance of refilling the tank, the permittee shall notify the Department of Health at least **seven (7) calendar days** prior to the refilling of the storage tank. Notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, the notification including the written documentation may be made in writing and sent so that it is received by the Department of Health at least **seven (7) calendar days** prior to refilling.

- v. If during the inspections required by Special Condition Nos. G.2.a.i.(1)(b), G.2.a.i.(2)(a), and G.2.a.i.(2)(c) of this Attachment, the internal floating roof has defects; or the primary seal has holes, tears, or other openings in the seal or the seal fabric; or the secondary seal has holes, tears, or other openings in the seal or the seal fabric; or the gaskets no longer close off the liquid surface from the atmosphere; or the slotted membrane has more than 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 organic HAP.

- b. For Group 1 storage tanks with external floating roofs (petroleum storage tanks 104, 105, 106, 107, 108, 109, 110, 111, 113, 162, 163, 232, 233, 235, 236, 237, 251, 252, 253, 254, 255, 256, 257, 258, 262, 264, 265, 266, 269, 271 and 273), the permittee shall demonstrate compliance by complying with the requirements of 40 CFR §63.120(b)(1) through (b)(10) including the following:
 - i. Except as provided in Special Condition No. G.2.b.vii. of this Attachment, the permittee shall determine the gap areas and maximum gap widths between the primary seal and the wall of the storage tank, and the secondary seal and the wall of the storage tank as follows:
 - (1) Within **ninety (90) calendar days** of installation of the secondary seal, inspection of both the primary and secondary seals; and
 - (2) At least **once every five (5) years** for the primary seal and at least **once per year** for the secondary seal thereafter.

 - ii. Except as provided in Special Condition No. G.2.b.vii. of this Attachment, the permittee shall determine gap widths and gap areas in the primary and secondary seals (seal gaps) individually by the procedures described below:
 - (1) Seal gaps, if any, shall be measured at one or more floating roof levels when the roof is not resting on the roof leg supports.

 - (2) Seal gaps, if any shall be measured around the entire circumference of the tank in each place where an 0.32 centimeter (1/8 inch) diameter uniform probe passes freely (without forcing or binding against the seal) between the seal and the wall of the storage tank. The circumferential distance of each such location shall also be measured.

 - (3) The total surface area of each gap described in Special Condition No. G.2.b.ii.(2) of this Attachment shall be determined by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each such width by its respective circumferential distance.

- iii. The permittee shall add the gap surface area of each gap location for the primary seal and divide the sum by the nominal diameter of the tank. The accumulated area of gaps between the tank wall and the primary seal shall not exceed 212 square centimeters per meter of tank diameter and the width of any portion of any gap shall not exceed 3.81 centimeters (1-1/2 inches).
- iv. The permittee shall add the gap surface area of each gap location for the secondary seal and divide the sum by the nominal diameter of the tank. The accumulated area of the gaps between the tank wall and the secondary seal shall not exceed 21.2 square centimeters per meter of tank diameter and the width of any portion of any gap shall not exceed 1.27 centimeters (1/2 inch). These seal gap requirements may be exceeded during the measurement of primary seal gaps as required by Special Condition No. G.2.b.i. of this Attachment.
- v. The primary seal shall meet the following requirements:
 - (1) Where a metallic shoe seal is in use, one end of the metallic shoe shall extend into the stored liquid and the other end shall extend a minimum vertical distance of 61 centimeters (24 inches) above the stored liquid surface.
 - (2) There shall be no holes, tears, or other openings in the shoe, seal fabric, or seal envelope.
- vi. The secondary seal shall meet the following requirements:
 - (1) The secondary seal shall be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall, except as provided in Special Condition No. G.2.b.iv. of this Attachment.
 - (2) There shall be no holes, tears, or other openings in the seal or seal fabric.
- vii. If the permittee determines that it is unsafe to perform the seal gap measurements required in Special Condition No. G.2.b.i. of this Attachment or to inspect the tank to determine compliance with Special Condition No. G.2.b.v. and G.2.b.vi. of this Attachment because the floating roof appears to be structurally unsound and poses an imminent or potential danger to inspecting personnel, the permittee shall comply with one of the following:
 - (1) The permittee shall measure the seal gaps or inspect the storage tank no later than **thirty (30) calendar days** after the determination that the roof is unsafe, or

- (2) The permittee shall empty and remove the storage tank from service no later than **forty-five (45) calendar days** after determining that the roof is unsafe. If the tank cannot be emptied within **forty-five (45) calendar days**, the permittee may utilize up to two extensions of up to **thirty (30) additional calendar days** each. Documentation of a decision to utilize an extension shall include an explanation of why it was unsafe to perform the inspection or seal gap measurement, shall document that alternate storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the tank will be emptied as soon as practical.
- viii. The permittee shall repair conditions that do not meet the requirements listed in Special Condition Nos. G.2.b.iii., G.2.b.iv., G.2.b.v. and G.2.b.vi. of this Attachment (i.e., failures), no later than **forty-five (45) calendar days** after identification, or shall empty and remove the storage tank from service no later than **forty-five (45) calendar days** after identification. If during seal gap measurements required in Special Condition No. G.2.b.i. of this Attachment or during inspections necessary to determine compliance with Special Condition Nos. G.2.b.v. and G.2.b.vi. of this Attachment a failure is detected that cannot be repaired within **forty-five (45) calendar days** and if the tank cannot be emptied within **forty-five (45) calendar days**, the permittee may utilize up to two extensions of up to **thirty (30) additional calendar days** each. Documentation of a decision to utilize an extension shall include a description of the failure, shall document that alternative storage capacity is unavailable, and shall specify a schedule of actions that will ensure that the control equipment will be repaired or the tank will be emptied as soon as practical.
- ix. The permittee shall notify the Department of Health in writing **thirty (30) calendar days** in advance of any gap measurements to afford the Department of Health the opportunity to have an observer present.
- x. The permittee shall visually inspect the external floating roof, the primary seal, secondary seal, and fittings each time the tank is emptied and degassed.
- (1) If the external floating roof has defects; the primary seal has holes, tears or other openings in the seal or seal fabric; or the secondary seal has holes, tears or other openings in the seal or seal fabric; the permittee shall repair the items as necessary so that none of the conditions specified above exist before filling or refilling the storage tank with organic HAP.
- (2) Except as provided below, for all the inspections required above, the permittee shall notify the Department of Health in writing as least **thirty (30) calendar days** prior to filling or refilling each

storage tank with organic HAP to afford the Department of Health the opportunity to inspect the storage tank prior to refilling.

- (3) If the inspections required above is not planned and the permittee could not have known about the inspection **thirty (30) calendar days** in advance of refilling the tank with organic HAP, the permittee shall notify the Department of Health at least **seven (7) calendar days** prior to refilling of the storage tank. Notification may be made by telephone and immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent so that it is received by the Department of Health at least **seven (7) calendar days** prior to the refilling.
- c. For Group 1 storage tanks consisting of an external floating roof converted to an internal floating roofs (petroleum storage tanks 249, 250 and 275)
 - i. The permittee shall keep a record that each inspection required by Special Condition No. G.2.a. of this Attachment was performed.
- d. For Group 1 storage tanks with external floating roofs (petroleum storage tanks 104, 105, 106, 107, 108, 109, 110, 111, 113, 162, 163, 232, 233, 235, 236, 237, 251, 252, 253, 254, 255, 256, 257, 258, 262, 264, 265, 266, 269, 271 and 273)
 - i. The permittee shall keep records describing the results of the seal gap measurements made in accordance with Special Condition No. G.2.b. of this Attachment. The records shall include the date of the measurement, the raw data obtained in the measurement, and the calculations described in Special Condition Nos. G.2.b.iii. and G.2.b.iv. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.646)¹

3. Notification and Reporting Requirements

- a. The permittee shall submit **semi-annually** 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 to June 30 and July 1 to December 31)** and shall include the following:
 - i. For Group 1 storage tanks consisting of an external floating roof converted to an internal floating roof (petroleum storage tanks 249, 250 and 275)
 - (1) Results of each inspection conducted in accordance with Special Condition No. G.2.a. of this Attachment in which a failure is

detected in the control equipment. For storage tanks for which annual inspections are required under Special Condition Nos. G.2.a.i.(1)(a) and G.2.a.i.(2)(b) of this Attachment, the following specifications and requirements apply:

- (a) A failure is defined as any time in which the internal floating roof is not resting on the surface of the liquid inside the storage tank and is not resting on the leg supports; or there is liquid on the floating roof; or the seal is detached from the internal floating roof; or there are holes, tears, or other openings in the seal or seal fabric; or there are visible gaps between the seal and the wall of the storage tank.
 - (b) Reports shall include the date of the inspection, identification of each storage tank in which a failure was detected, and a description of the failure. The report shall also describe the nature of and date the repair was made or the date the storage tank was emptied.
 - (c) If an extension is utilized in accordance with Special Condition No. G.2.a.ii. of this Attachment, the permittee shall, in the next semi-annual report, identify the tank; include the documentation specified in Special Condition No. G.2.a.ii. of this Attachment; and describe the date the storage tank was emptied and the nature of and date the repair was made.
- (2) For storage tanks for which inspections are required under Special Condition Nos. G.2.a.i.(1)(b), G.2.a.i.(2)(a) or G.2.a.i.(2)(c) of this Attachment (i.e., internal inspections), the following specifications and requirements apply:
- (a) A failure is defined as any time in which the internal floating roof has defects; or the the primary seal has holes, tears, or other openings in the seal or seal fabric; or the secondary seal (if one has been installed) has holes, tears or other openings in the seal or the seal fabric; or, for a storage tank that is part of a new source, the gaskets no longer close off the liquid surface from the atmosphere; or, for a storage tank that is part of a new source, the slotted membrane has more than a 10 percent open area.
 - (b) The report shall include the date of the inspection, identification of each storage tank in which a failure was detected, and a description of the failure. The report shall also describe the nature of and date the repair was made.

- ii. Group 1 storage tanks with external floating roofs (petroleum storage tanks 104, 105, 106, 107, 108, 109, 110, 111, 113, 162, 163, 232, 233, 235, 236, 237, 251, 252, 253, 254, 255, 256, 257, 258, 262, 264, 265, 266, 269, 271 and 273)
 - (1) Documentation of the results of each seal gap measurement made in accordance with Special Condition No. G.2.b. of this Attachment in which the seal and seal gap requirements of Special Condition Nos. G.2.b.iii., G.2.b.iv., G.2.b.v. or G.2.b.vi. of this Attachment are not met. The documentation shall include the following information:
 - (a) The date of the seal gap measurement;
 - (b) The raw data obtained in the seal gap measurement and the calculations described in Special Condition Nos. G.2.b.iii. and G.2.b.iv. of this Attachment;
 - (c) A description of any seal condition specified in Special Condition Nos. G.2.b.v. or G.2.b.vi. of this Attachment that is not met; and
 - (d) A description of the nature of and date the repair was made, or the date the storage tank was emptied.
 - (2) If an extension is utilized in accordance with Special Condition Nos. G.2.b.vii. or G.2.b.viii. of this Attachment, the permittee shall, in the next semi-annual report, identify the tank; include the documentation specified in Special Condition Nos. G.2.b.vii. or G.2.b.viii. of this Attachment, as applicable; and describe the date the tank was emptied and the nature of and date the repair was made.
 - (3) Documentation of any failures that are identified during the visual inspections required by Special Condition No. G.2.b.x. of this Attachment.
 - (a) A failure is defined as any time in which the external floating roof has defects; or the primary seal has holes or other openings in the seal or the seal fabric; or the secondary seal has holes, tears or other openings in the seal or the seal fabric.
 - (b) Documentation shall include the date of the inspection, identification of each storage tank in which a failure was detected, and a description of the failure. The nature of and the date the repair was made shall also be documented.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.654)¹

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.