

PROPOSED

[Amended Date]

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

06-XXE CAB
File No. 0088-09

Mr. David E. Rogers
Refinery Manager
Chevron USA Products Company
91-480 Malakole Street
Kapolei, Hawaii 96707-1883

Dear Mr. Rogers:

**Subject: Amendment of Covered Source Permit (CSP) No. 0088-01-C
Significant Modification Application No. 0088-09
FCC Flare Vapor Recovery System
Chevron USA Products Company
Petroleum Refinery
Located at: 91-480 Malakole Street, Kapolei, Oahu
Date of Expiration: [Five-Year Period from Issuance Date]**

In accordance with Hawaii Administrative Rules, Chapter 11-60.1, and pursuant to your application for a Significant Modification dated February 23, 2006, and additional information dated March 24, 2006, the Department of Health hereby amends Covered Source Permit (CSP) No. 0088-01-C issued to Chevron USA Products Company. The amendment adds a FCC Flare Vapor Recovery System to the miscellaneous process units and source operations section of the permit. These changes are reflected in the enclosed Attachment II(A) which supersedes, in its entirety, Attachment II(A), issued with CSP No. 0088-01-C on February 22, 1999. All other permit conditions of CSP No. 0088-01-C issued on February 22, 1999, and amended on April 16, 2002, and March 3, 2003, shall not be affected and shall remain valid. A receipt for the application filing fee of \$1000.00 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:lk
Enclosures
c: CAB Monitoring Section

**ATTACHMENT II(A): SPECIAL CONDITIONS
MISCELLANEOUS PROCESS UNITS AND SOURCE OPERATIONS
COVERED SOURCE PERMIT NO. 0088-01-C**

[Amended 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. This portion of the Covered Source Permit encompasses the requirements for miscellaneous process units and/or source operations not included with the Special Conditions of Attachments II(B) through II(M).

(Auth.: HAR §11-60.1-3)

Section B. Applicable Federal Regulations

1. The FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, and FCC Flare Vapor Recovery System are subject to the provisions of the following federal regulations:
 - a. 40 CFR Part 60, New Source Performance Standards (NSPS),
 - i. Subpart A, General Provisions; and
 - ii. Subpart GGG, Standards of Performance for Equipment Leaks in Petroleum Refineries.

The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, reporting, monitoring, testing and recordkeeping 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, 40 CFR §60.1, §60.590)¹

2. The Cogeneration Plant, Crude Unit Furnaces and Desalter, and FCC Flare Vapor Recovery System are subject to the provisions of the following federal regulations:
 - a. 40 CFR Part 60, New Source Performance Standards (NSPS),
 - i. Subpart A, General Provisions; and
 - ii. Subpart QQQ, Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems.

The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, reporting, monitoring, testing and recordkeeping 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, 40 CFR §60.1, §60.690)¹

3. The FCC Unit, Crude Unit, Blending and Shipping Area, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, Alkylation Plant and Effluent Treatment Plant 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.
 - b. The above regulations are not applicable to any pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, valve, or instrumentation system that is intended to operate in organic hazardous air pollutant service, as defined in 40 CFR §63.641, for less than 300 hours during the calendar year.

The permittee shall comply with all applicable requirements of these standards, including all emission limits, notification, reporting, monitoring, testing and recordkeeping 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, §11.60.1-174, 40 CFR §63.640)¹

4. The storage and use of flammable substances in this facility is subject to the provisions of 40 CFR Part 68, Chemical Accident Prevention Provisions. The permittee shall comply with all applicable requirements, including the submittal of:
 - a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a); or
 - b. As part of the compliance certification submitted pursuant to Attachment I, Standard Condition No. 28, a certification statement that the facility is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.

(Auth.: HAR §11-60.1-3, §11-60.1-90, 40 CFR §68)¹

Section C. Operational and Emission Limitations

1. All pumps and compressors handling volatile organic compounds having a Reid Vapor Pressure (RVP) of 1.5 pounds per square inch (psi) or greater which can be fitted with mechanical seals shall have mechanical seals or other equipment of equal efficiency for purposes of air pollution control as may be approved by the Department of Health. Pumps and compressors not capable of being fitted with mechanical seals, such as reciprocating pumps, shall be fitted with the best sealing system available for air pollution control given the particular design of pump or compressor as may be approved by the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-41, §11-60.1-90)

2. The permittee shall not cause or allow the emissions of gas streams containing volatile organic compounds from a vapor blowdown system unless these gases are burned by smokeless flares, or abated by an equally effective control device as approved by the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-42, §11-60.1-90)

3. Compressor

- a. Each compressor located at the FCC Unit, Crude Unit, LPG Refrigeration System, Cogeneration Plant and Liquid Fuel System, and FCC Flare Vapor Recovery System shall be equipped and operated with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in 40 CFR §60.482-1(c), 40 CFR §60.482-3(h) and 40 CFR §60.482-3(i).

- b. Each compressor seal system as required in Special Condition No. C.3.a. of this Attachment shall be as follows:

- i. Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or
- ii. Equipped with a barrier fluid system that is connected by a closed vent system to a control device that complies with the requirements of 40 CFR §60.482-10; or
- iii. Equipped with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere.

- c. The barrier fluid system shall be in heavy liquid service or shall not be in VOC service.

- d. A compressor is exempt from the requirements of Special Condition No. C.3.a. and C.3.b. of this Attachment if it is equipped with a closed vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of 40 CFR §60.482-10, except as provided in Special Condition No. C.3.e. of this Attachment.

- e. Any compressor that is designated for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by methods specified in 40 CFR §60.485(c) and is tested for compliance initially upon designation, annually, and at other times requested by the Department of Health is exempt from the requirements of Special Condition Nos. C.3.a. through C.3.d. and D.3.a. and D.3.b. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592)¹

4. ___ Pressure Relief Devices in Gas/Vapor Service

- a. Except during pressure releases, each pressure relief device in gas/vapor service located at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, and FCC Flare Vapor Recovery System shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in 40 CFR §60.485(c).
- b. *After each pressure release*, the pressure relief device shall be returned to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, **as soon as practicable**, but no later than 5 calendar days *after the pressure release*, except as provided in Special Condition No. C.8. of this Attachment.
- c. Any pressure relief device is exempt from the requirements of Special Condition No. C.4.a. and C.4.b. of this Attachment if it is equipped with a closed vent system capable of capturing and transporting leakage through the pressure relief device to a control device that complies with the requirements of 40 CFR §60.482-10.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592)¹

5. Open Ended Valves/Lines

- a. Each open-ended valve or line at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and Effluent Treatment Plant shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR §60.482-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.
- b. Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

- c. When a double block-and-bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with Special Condition No. C.5.a. of this Attachment at all other times.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

6. Sampling Connection Systems

- a. Each sampling connection system at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and Effluent Treatment Plant shall be equipped with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR §60.482-1(c).
- b. Each closed-purged, closed-loop, or closed-vent system shall comply with the following requirements:
 - i. Return the purged process fluid directly to the process line; or
 - ii. Collect and recycle the purged process fluid to a process; or
 - iii. Be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of 40 CFR §60.482-10.
- c. In situ sampling systems and sampling systems without purges are exempt from the requirements of Special Condition No. C.6.a. and C.6.b. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

7. Individual Drain Systems

- a. Sewer drains located at the Cogeneration Plant, Crude Unit Furnaces and Desalter, and FCC Flare Vapor Recovery System shall be equipped with water seal controls.
- b. Junction boxes located at the Cogeneration Plant shall be equipped with a cover and may have an open vent pipe at least 3 feet (90 cm) in length and shall not exceed 4 inches (10.2 cm) in diameter.
- c. Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance.
- d. Sewer lines located at the Cogeneration Plant, Crude Unit Furnaces and Desalter, and FCC Flare Vapor Recovery System shall not be open to the atmosphere and shall be covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces.

- e. Refinery wastewater routed through new process drains and a new first common downstream junction box at the Cogeneration Plant either as part of a new individual drain system or an existing individual drain system, shall not be routed through a downstream catch basin.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2)¹

8. Delay of Repair

- a. Delay of repair of equipment for which leaks have been detected will be allowed if the repair is technically infeasible without a process unit shutdown. Repair of this equipment shall occur before the end of the next process unit shutdown.
- b. Delay of repair of equipment will be allowed for equipment which is isolated from the process and which does not remain in VOC service.
- c. Delay of repair for valves will be allowed if:
 - i. The permittee demonstrates that emissions of purged material resulting from the immediate repair are greater than the fugitive emissions likely to result from the delay of repair, and
 - ii. When repair procedures are effected, the purged material is collected and destroyed or recovered in a control device complying with the requirements of 40 CFR §60.482-10.
- d. Delay of repair for pumps will be allowed if:
 - i. Repair requires the use of a dual mechanical seal system that includes a barrier fluid system, and
 - ii. Repair is completed as soon as practicable, but not later than 6 months after the leak was detected.
- e. Delay of repair beyond a process unit shutdown will be allowed for a valve, if valve assembly replacement is necessary during the process unit shutdown, valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the next process unit shutdown will not be allowed unless the next process unit shutdown occurs sooner than 6 months after the first process unit shutdown.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

Section D. Monitoring and Recordkeeping Requirements

1. All records, including support information, shall be maintained 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 calibration and maintenance records and copies of all reports required by the permit. These records shall be 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, §11-60.1-11, §11-60.1-90)

2. Pumps in Light Liquid Service
 - a. Each pump in light liquid service at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and Effluent Treatment Plant shall be monitored **monthly** to detect leaks in accordance with the requirements set forth in 40 CFR §60.485(b), except as provided in 40 CFR §60.482-1(c) and 40 CFR §60.482-2(d), (e) and (f).
 - b. Each pump in light liquid service at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and the Effluent Treatment Plant shall be checked by visual inspection **each calendar week** for indications of liquids dripping from the pump seal.
 - c. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
 - d. If there are indications of liquids dripping from the pump seal, a leak is detected.
 - e. When a leak is detected, it shall be repaired **as soon as practicable, but not later than fifteen (15) calendar days after it is detected**, except as provided in Special Condition No. C.8. of this Attachment. A first attempt at repair shall be made **no later than five (5) calendar days after each leak is detected**.
 - f. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of Special Condition No. D.2.a. of this Attachment provided the requirements of 40 CFR §60.482-2(d)(1) through (6) are met.

- g. Any pump that is designated for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Special Condition Nos. D.2.a., D.2. b., D.2.e., and D.2.f. of this Attachment if the pump:
 - i. Has no externally actuated shaft penetrating the pump housing;
 - ii. Is demonstrated to be operating with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background as measured by the methods specified in 40 CFR §60.485(c); and
 - iii. Is tested for compliance with Special Condition No. D.2.g.ii. of this Attachment initially upon designation, annually, and at other times requested by the Department of Health.
- h. If any pump is equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of 40 CFR §60.482-10, it is exempt from the requirements of Special Condition Nos. D.2.a. through D.2.g. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

3. Compressors

- a. Each compressor barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. Each sensor shall be checked **daily** or shall be equipped with an audible alarm. If the sensor indicates failure of the seal system, the barrier system, or both, a leak is detected.
- b. When a leak is detected, it shall be repaired **as soon as practicable, but not later than fifteen (15) calendar days after it is detected**, except as provided in Special Condition No. C.8. of this Attachment. A first attempt at repair shall be made **no later than five (5) calendar days after each leak is detected**.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592)¹

4. Pressure Relief Devices in Gas/Vapor Service

No later than five (5) calendar days after a pressure release, the pressure relief device subject to the requirements of 40 CFR Part 60, Subpart GGG shall be monitored to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, by the methods specified in 40 CFR §60.485(c).

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592)¹

5. Valves in Light Liquid Service and in Gas/Vapor Service
- a. Each valve in light liquid service at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and Effluent Treatment Plant shall be monitored **monthly** to detect leaks in accordance with the requirements set forth in 40 CFR §60.485(b).
 - b. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
 - c. Any valve for which a leak is *not detected for 2 successive months* may be monitored the **first month of every quarter**, beginning with the next quarter, *until a leak is detected*. *If a leak is detected*, the valve shall be monitored **monthly** until a leak is *not detected for 2 successive months*.
 - d. *When a leak is detected*, it shall be repaired **as soon as practicable, but not later than fifteen (15) calendar days after it is detected**, except as provided in Special Condition No. C.8. of this Attachment. A first attempt at repair shall be made **no later than five (5) calendar days after each leak is detected**.
 - e. First attempts at repair include, but are not limited to, the following best practices where practicable:
 - i. Tightening of bonnet bolts;
 - ii. Replacement of bonnet bolts;
 - iii. Tightening of packing gland nuts; and
 - iv. Injection of lubricant into lubricated packing.
 - f. Any valve that is designated, as described in 40 CFR §60.486(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of Special Condition No. D.5.a. of this Attachment if the valve:
 - i. Has no external actuating mechanism in contact with the process fluid;
 - ii. Is operated with emissions less than 500 ppm above background as determined by the method specified in 40 CFR §60.485(c); and
 - iii. Is tested for compliance with the Special Condition No. D.5.f.ii. of this Attachment initially upon designation, annually, and at other times requested by the Department of Health.
 - g. Any valve that is designated, as described in 40 CFR §60.486(f)(1), as unsafe-to-monitor valve and satisfies the criteria outlined in 40 CFR §60.482-7(g) is exempt from the requirements of Special Condition No. D.5.a. of this Attachment.

- h. Any valve that is designated, as described in 40 CFR §60.486(f)(2), as difficult-to-monitor valve and satisfies the criteria outlined in 40 CFR §60.482-7(h) is exempt from the requirements of Special Condition No. D.5.a. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

6. Pumps and Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges and other Connectors

- a. Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors at the FCC Unit, Crude Unit, LPG Refrigeration System, Dimersol Plant, Cogeneration Plant Compressor and Liquid Fuel System, FCC Flare Vapor Recovery System, Blending and Shipping Area, Alkylation Plant and Effluent Treatment Plant shall be monitored **within five (5) days** by the method specified in 40 CFR §60.485(b) *if evidence of a potential leak is found by visual, audible, olfactory, or any other detection method.*
- b. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.
- c. *When a leak is detected*, it shall be repaired **as soon as practicable, but not later than fifteen (15) calendar days after it is detected**, except as provided in Special Condition No. C.8. of this Attachment. The first attempt at repair shall be made **no later than five (5) calendar days after each leak is detected.**
- d. First attempts at repair include, but are not limited to, the best practices described in Special Condition No. D.5.e. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

7. *When each leak is detected*, a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

8. The identification on a valve may be removed after it has been monitored for two (2) successive months as specified in Special Condition No. D.5.c. of this Attachment and no leak has been detected during those 2 months. The identification on equipment except a valve, may be removed after it has been repaired.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

9. *When each leak is detected*, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:
- a. The instrument and operator identification numbers and the equipment identification number;
 - b. The date the leak was detected and the dates of each attempt to repair the leak;
 - c. Repair methods applied in each attempt to repair the leak;
 - d. "Above 10,000" if the maximum instrument reading measured by the methods specified in 40 CFR §60.485(a) after each repair attempt is equal to or greater than 10,000 ppm;
 - e. "Repair delayed" and the reason for the delay if a leak is not repaired within fifteen (15) calendar days after discovery of the leak;
 - f. The signature of the permittee whose decision it was that repair could not be effected without a process shutdown;
 - g. The expected date of successful repair of the leak if a leak is not repaired within fifteen (15) days;
 - h. Dates of process unit shutdown that occur while the equipment is unrepaired; and
 - i. The date of successful repair of the leak.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

10. The following information pertaining to all equipment subject to the requirements of 40 CFR Part 60, Subpart GGG, or 40 CFR Part 63, Subpart CC, shall be recorded in a log that is kept in a readily accessible location:
- a. A list of identification numbers for all equipment;
 - b. A list of identification numbers for equipment that are designated for no detectable emissions which is signed by the permittee;
 - c. A list of equipment identification numbers for pressure relief devices required to comply with the requirements of Special Condition No. C.4. of this Attachment;
 - d. The dates of each compliance test used to determine no detectable emissions;
 - i. The background level measured during each compliance test; and
 - ii. The maximum instrument reading measured at the equipment during each compliance test; and
 - e. A list of identification numbers for equipment in vacuum service.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

11. The following information pertaining to all valves subject to the requirements of 40 CFR Part 60, Subpart GGG, or 40 CFR Part 63, Subpart CC, shall be recorded in a log that is kept in a readily accessible location:

- a. A list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve; and
- b. A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

12. The following information shall be recorded in a log that is kept in a readily accessible location:

- a. Design criterion based on design considerations and operating experience indicating the failure of the seal system, barrier fluid system, or both of each affected pump or compressor.
- b. Any changes to this criterion and the reasons for the changes.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

13. Each drain in active service at the Cogeneration Plant, Crude Unit Furnaces and Desalter, and FCC Flare Vapor Recovery System shall be checked by visual inspection or physical inspection **initially and monthly** thereafter for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2)¹

14. Except for out of service drains where a tightly sealed cap or plug is installed, each drain out of active service shall be checked by visual or physical inspection **initially and weekly** thereafter for indications of low water levels or other problems that could result in VOC emissions. Drains having tightly sealed caps or plugs shall be inspected initially and semiannually to ensure caps or plugs are in place and properly installed.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2)¹

15. *Whenever low water levels or missing or improperly installed caps or plugs are identified*, water shall be added or first efforts at repair shall be made **as soon as practicable**, but not later than twenty-hour (24) hours after detection unless it is determined to be technically impossible without a complete or partial refinery or process unit shutdown. In such instances, repair shall occur before the end of the next refinery or process unit shutdown.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2, §60.692-6)¹

16. Junction boxes located at the Cogeneration Plant shall be visually inspected **initially and semiannually** thereafter to ensure that the cover is in place and to ensure that the cover has a tight seal around the edge.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2)¹

17. *If a broken seal or gap is identified*, first effort at repair shall be made **as soon as practicable, but not later than fifteen (15) calendar days** after the broken seal or gap is identified unless it is determined to be technically impossible without a complete or partial refinery or process unit shutdown. In such instances, repair shall occur before the end of the next refinery or process unit shutdown.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2, §60.692-6)¹

18. The portion of each unburied sewer line located at the Cogeneration Plant and Crude Unit Furnaces and Desalter shall be visually inspected **initially and semiannually** for indication of cracks, gaps, or other problems that could result in VOC emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2)¹

19. *Wherever cracks, gaps, or other problems are detected*, repairs shall be made **as soon as practicable, but not later than fifteen (15) calendar days** after identification unless it is determined to be technically impossible without a complete or partial refinery or process unit shutdown. In such instances, repair shall occur before the end of the next refinery or process unit shutdown.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.692-2, §60.692-6)¹

20. Before using any individual drain system installed in compliance with 40 CFR §60.692-2, the permittee shall inspect such equipment for indications of potential emissions, defects, or other problems that may cause the requirements of 40 CFR Part 60, Subpart QQQ not to be met. Points of inspection include, but are not limited to, seals, flanges, joints, gaskets, hatches, caps, and plugs.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.696)¹

21. For each individual drain systems subject to the requirements of 40 CFR §60.692-2, the location, date, and corrective action shall be recorded for each drain when the water seal is dry or otherwise breached, when a drain cap or plug is missing or improperly installed, or other problem is identified that could result in VOC emissions during the initial and periodic visual or physical inspection.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.697)¹

22. For junction boxes subject to the requirements of 40 CFR §60.692-2, the location, date, and corrective action shall be recorded for each inspection when a broken seal, gap, or other problem is identified that could result in VOC emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.697)¹

23. For each sewer line subject to the requirements of 40 CFR §60.692-2, the location, date, and corrective action shall be recorded for inspections when a problem is identified that could result in VOC emissions.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.697)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 Form: Refinery Equipment - Process Rate** or equivalent form, shall be used in reporting fugitive 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 Condition Nos. 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, **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 a responsible official. 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.

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 submit for valves, pumps and compressors subject to the requirements of 40 CFR Part 60, Subpart GGG, or 40 CFR Part 63, Subpart CC, **semiannual** 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)**. The **initial** semiannual report shall include the following information:

- a. Process unit identification;
- b. Number of valves subject to the requirements of Special Condition No. D.5. of this Attachment, excluding those valves designated for no detectable emissions under the provisions of Special Condition No. D.5.f. of this Attachment;
- c. Number of pumps subject to the requirements of Special Condition No. D.2. of this Attachment, excluding those pumps designated for no detectable emissions under the provisions of Special Condition No. D.2.g. of this Attachment and those pumps complying with Special Condition No. D.2.h. of this Attachment; and
- d. Number of compressors subject to the requirements of Special Condition No. C.3. of this Attachment, excluding those compressors designated for no detectable emissions under the provisions of Special Condition No. C.3.e. of this Attachment and those compressors complying with Special Condition No. C.3.d. of this Attachment.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

6. All semiannual reports, required in Special Condition No. E.5. of this Attachment, shall include the following information:
 - a. Process unit identification;
 - b. For each month during the semiannual reporting period:
 - i. Number of valves for which leaks were detected;
 - ii. Number of valves for which leaks were not repaired;
 - iii. Number of pumps for which leaks were detected;
 - iv. Number of pumps for which leaks were not repaired;
 - v. Number of compressors for which leaks were detected;
 - vi. Number of compressors for which leaks were not repaired; and
 - vii. The facts that explain each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible.
 - c. Dates of process unit shutdowns which occurred within the semiannual reporting period; and
 - d. Revisions to items reported in the initial semiannual report if changes have occurred since the initial report or subsequent revisions to the initial report.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.592, §63.648)¹

7. The permittee shall submit to the Department of Health within **sixty (60) days** after initial startup a certification that the equipment necessary to comply with 40 CFR Part 60, Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines and junction boxes have been carried out in accordance with 40 CFR Part 60, Subpart QQQ. Thereafter, the permittee shall submit **semiannually** a certification that all of the required inspections have been carried out in accordance with 40 CFR Part 60, Subpart QQQ.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.698)¹

8. A report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken, shall be submitted **initially and semiannually** thereafter to the Department of Health.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.698)¹

9. If compliance with the provisions of 40 CFR Part 60, Subpart QQQ is delayed pursuant to 40 CFR §60.692-7, the notification required under 40 CFR §60.7(a)(4) shall include the estimated date of the next scheduled refinery or process unit shutdown after the date of notification and the reason why compliance with the standard is technically impossible without a refinery or process unit shutdown.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, 40 CFR §60.698)¹

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)

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.