ADMINISTRATIVE RECORD

Par Hawaii, LLC

Application for Renewal No. 0382-10

Kawaihae Terminal

Located At: 61-3651 Kawaihae Road, Kawaihae, Hawaii

CSP No. 0382-02-C

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Public Notice
REQUEST FOR PUBLIC COMMENTS
ON DRAFT AIR PERMIT
REGULATING THE EMISSIONS OF AIR POLLUTANTS

(Docket No. 22-CA-PA-10)

Pursuant to Hawaii Revised Statutes (HRS), Chapter 342B-13 and Hawaii Administrative Rules (HAR), Chapter 11-60.1, the Department of Health, State of Hawaii (DOH), is requesting public comments on a DRAFT PERMIT presently under review for:

Covered Source Permit (CSP) No. 0382-02-C
Renewal Application No. 0382-10
Par Hawaii, LLC
Kawaihae Terminal
Located At: 61-3651 Kawaihae Road, Kawaihae, Hawaii

The DRAFT PERMIT is described as follows:

CSP No. 0382-02-C would grant conditional approval for the operation of an existing petroleum bulk loading terminal. The following federal regulations are applicable to the facility:


• The petroleum storage Tank Nos. 4129, 4130, 4132, 4133, and the petroleum tank truck load rack are subject to 40 CFR Part 63, Subpart BBBBBB, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminal, Bulk Plants, and Pipeline Facilities.

• The petroleum tank truck load rack is also subject to 40 CFR Part 60, Subpart XX, Standard of Performance for Bulk Gasoline Terminals.

This permit, if issued, will supersede CSP No. 0382-02-C issued on November 9, 2015, and amended on July 17, 2019, in its entirety.

The total potential emissions from the Kawaihae Terminal are as follows:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emissions (tpy)</th>
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<tbody>
<tr>
<td>NOx</td>
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</tr>
<tr>
<td>CO2e</td>
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</table>
The **ADMINISTRATIVE RECORD**, consisting of the **APPLICATION** and non-confidential supporting materials from the applicant, the permit review summary, and the **DRAFT PERMIT**, is available online at: [http://health.hawaii.gov/cab/public-notices/](http://health.hawaii.gov/cab/public-notices/) and for public inspection during regular office hours, Monday through Friday, 7:45 a.m. to 4:15 p.m., at the following locations:

**Oahu:**
- State of Hawaii
  - Clean Air Branch
  - 2827 Waimano Home Road #130
  - Pearl City, Hawaii 96782

**Hawaii:**
- Hawaii District Health Office, Department of Health
  - 1582 Kamehameha Avenue, Hilo, Hawaii
- Sanitation Branch, Keakealani Building, Department of Health
  - 79-1020 Haukapila Street, Room 115, Kealakekua, Hawaii

All comments on the draft permit and any request for a public hearing must be in writing, addressed to the Clean Air Branch at the above address on Oahu and must be postmarked or received by **September 16, 2022**.

Any person may request a public hearing by submitting a written request that explains the party’s interest and the reasons why a hearing is warranted. The DOH may hold a public hearing if a hearing would aid in DOH’s decision. If a public hearing is warranted, a public notice for the hearing will be published at least thirty days in advance of the hearing.

Interested persons may obtain copies of the administrative record or parts thereof by paying **five (5) cents per page copying costs**. Please send written requests to the Clean Air Branch listed above or call Mr. Darin Lum at the Clean Air Branch at (808) 586-4200.

Comments on the draft permit should address, but need not be limited to, the permit conditions and the facility’s compliance with federal and state air pollution laws, including: (1) the National and State Ambient Air Quality Standards; and (2) HRS, Chapter 342B and HAR, Chapter 11-60.1.

DOH will make a final decision on the permit after considering all comments and will send notice of the final decision to each person who has submitted comments or requested such notice.

Elizabeth A. Char, M.D.
Director of Health
Draft Permit
Mr. Eric Wright  
Senior Vice President  
Par Hawaii, LLC  
1132 Bishop Street, Suite 2500  
Honolulu, Hawaii 96813

Dear Mr. Wright:

SUBJECT: Covered Source Permit (CSP) No. 0382-02-C  
Application for Renewal No. 0382-10  
Par Hawaii, LLC  
Kawaihae Terminal  
Located At: 61-3651 Kawaihae Road, Kawaihae, Hawaii  
Date of Expiration: DATE

The subject CSP is issued in accordance with Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1. The issuance of this permit is based on your renewal application dated October 7, 2019, and additional information received on May 17, 2021. This permit supersedes in its entirety CSP No. 0382-02-C issued on November 9, 2015, and amended on July 17, 2019.

The CSP is issued subject to the conditions/requirements set forth in the following attachments:

- Attachment I: Standard Conditions
- Attachment IIA: Special Conditions - Petroleum Storage Tanks
- Attachment IIB: Special Conditions - Tank Truck Load Rack
- Attachment IIC: Special Conditions - Equipment in Gasoline Service
- 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: Internal Floating Roof Storage Tanks
- Annual Emissions Report Form: Tank Truck Load Rack
- Monitoring Report Form: Internal Floating Roof Storage Tanks
- Monitoring Report Form: Tank Truck Load Rack
- Monitoring Report Form:Opacity Exceedances
- Monitoring Report Form: Equipment Leaks
- Monitoring Report Form: Malfunctions
- Excess Emissions Report Form: Equipment Leaks

The following are enclosed for your use in monitoring visible emissions:

- Visible Emissions Form Requirements, State of Hawaii
- Visible Emissions Form

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 Department of Health, Clean Air Branch (herein after referred to as Department), 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.

If you have any questions, please contact Mr. Darin Lum of the Clean Air Branch at (808) 586-4200.

Sincerely,

JOANNA L. SETO, P.E., CHIEF
Environmental Management Division

DL:tkg

Enclosures
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, 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.

(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 notify 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 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 CSP. There shall be no deviation unless additional or revised plans are submitted to and approved by the Department, 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 notify the Department 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 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 copies of records required to be kept by the permittee. For information claimed to be confidential, the Director of Health (Director) may require the permittee to furnish such records not only to the Department 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 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 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 §11-60.1-16)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 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.

(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, 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 a covered source covered by this permit, the discontinuance shall be reported in writing to the Department 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 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 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:

State of Hawaii  
Clean Air Branch  
2827 Waimano Home Road, #130  
Pearl City, HI 96782

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

Manager  
Enforcement Division, Air Section  
U.S. Environmental Protection Agency, Region 9  
75 Hawthorne Street, ENF-2-1  
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)

1The 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.

2The 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.
Section A. Equipment Description

1. Attachment IIA of this permit encompasses the following petroleum storage tanks and associated appurtenances:
   a. One (1) 1,600-barrel internal floating roof petroleum storage Tank No. 4129;
   b. One (1) 4,000-barrel internal floating roof petroleum storage Tank No. 4130;
   c. One (1) 7,500-barrel internal floating roof petroleum storage Tank No. 4132; and
   d. One (1) 10,100-barrel internal floating roof petroleum storage Tank No. 4133.

   (Auth.: HAR §11-60.1-3)

2. The permittee shall attach an identification tag or name plate on each petroleum storage tank, with the tank identification no. The identification tag or name plate shall be permanently displayed on the equipment in a conspicuous location.

   (Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. Petroleum Storage Tanks Nos. 4129, 4130, 4132, and 4133

   The petroleum storage tanks are subject to the provisions of the following federal regulations when storing gasoline:


   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11081) ¹

2. Petroleum Storage Tank No. 4129

   The petroleum storage tank is 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; and

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

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)

Section C. Operational Limitations

1. General (Tank No. 4129)

   Tank No. 4129 is subject to the control requirements specified in 40 CFR Part 60, Subpart Kb, and is deemed in compliance with 40 CFR Part 63, Subpart BBBBBB, if requirements of Attachment IIA 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 IIA, Special Condition No. E.8.

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11087)\(^1\)

2. Construction and Operation (Tank Nos. 4130, 4132, and 4133)

   The storage tanks 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 inside the storage tanks shall be maintained below 11.1 psia at all times.

   b. The storage tanks shall meet the following requirements when storing gasoline. Equip each internal floating roof gasoline storage tank according to the requirements of 40 CFR §60.112b(a)(1), except for the 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).

   c. The permittee shall be in compliance with the applicable requirements specified in Attachment IIA, Special Condition No. C.2.b, for the internal floating roof storage tanks 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, §11-60.1-174; 40 CFR §63.11087)\(^1\)
3. Construction and Operation (Tank No. 4129)

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

a. The true vapor pressure of the VOL stored shall be maintained below 11.1 psia at all times;

b. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside the fixed roof storage tank. 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 or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of emptying or refilling shall be continuous and shall be accomplished as rapidly as possible;

c. The storage tank 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:

   i. A foam or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam or liquid-filled seal mounted in contact with the liquid between the wall of the storage tank and the floating roof continuously around the circumference of the tank;

   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.

d. Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and rim space vents is to provide a projection below the liquid surface;

e. Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use;

f. Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except, when the roof is being floated off or is being landed on the roof leg supports;

g. Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer’s recommended setting;

h. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least ninety (90) percent of the opening;
i. Each penetration of the internal floating roof that allows for the passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover; and

j. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

(Auth.: HAR §11-60.1-3, §11-60.1-39, §11-60.1-90, §11-60.1-161; 40 CFR §60.112b)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 or its representative(s) upon request.

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

2. The permittee shall maintain and operate a tank gauging system for each petroleum storage tank to monitor the throughput of petroleum product for the purpose of calculating annual emissions.

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

3. Inspections (Tank Nos. 4130, 4132, and 4133)

Internal floating roof storage tank inspections of the floating roof systems shall be performed according to the requirements of 40 CFR §60.113b(a).

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11092)¹

4. Inspection (Tank No. 4129)

a. For a tank equipped with the seal system specified in Attachment IIA, Special Condition No. C.3.c.i, inspect in accordance with Attachment IIA, Special Condition Nos. D.5 and D.6.

b. For a tank equipped with a double-seal system, as specified in Attachment IIA, Special Condition No. C.3.c.ii, inspect in accordance with:

   i. Attachment IIA, Special Condition Nos. D.5 and D.6; or
ii. Attachment IIA, Special Condition No. D.6, except inspect at least every **five (5) years** instead of **ten (10) years**.

c. For a tank equipped with the seal system specified in Attachment IIA, Special Condition No. C.3.c.iii, inspect in accordance with Attachment IIA, Special Condition Nos. D.5 and D.6.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b)\(^1\)

5. Annual Inspection (Tank No. 4129)

The permittee shall visually inspect the internal floating roof, the primary seal, or the 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 condition cannot be repaired within **forty-five (45) days** and if the tank cannot be emptied within **forty-five (45) days**, a **thirty (30) day** extension may be requested from the Department in the annual inspection report required by Attachment IIA, Special Condition No. E.2. 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, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b)\(^1\)

6. Inspection after Tank Emptied and Degassed (Tank No. 4129)

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 secondary 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 IIA, Special Condition Nos. D.4.a, D.4.b.i, and D.4.c. In no event, shall inspections conducted in accordance with this condition occur at intervals greater than **five (5) years** for inspections specified in Attachment IIA, Special Condition No. D.4.b.ii.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b)\(^1\)
7. Records (Tank Nos. 4130, 4132, and 4133)

When storing gasoline, the permittee shall keep records for each gasoline storage tank in accordance with 40 CFR §60.115b. For each petroleum storage tank, the following records shall also be maintained at the facility:

a. Records showing the dimensions (feet) of the storage tanks and the analysis showing the capacity (gallons or barrels) of the storage tanks shall be maintained for the life of the tank;

b. Type of seal(s);

c. Type of VOL stored, the period of storage, and the maximum true vapor pressure (psia) of the VOL stored during the respective storage period. Determination of the maximum true vapor pressure shall be done in accordance with 40 CFR §60.116b(e). The method used to determine the maximum true vapor pressure shall be identified in the records; and

d. Each inspection and corrective action performed; including records of the storage tank identification no., the date the tank was inspected, the observed condition of each component of the control equipment (seals, internal floating roof, fittings, etc.), and any repairs made.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11094)¹

8. Records (Tank No. 4129)

a. The permittee shall keep records of each inspection performed as required by Attachment IIA, Special Condition Nos. D.5 and D.6. 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, and fittings, etc.).

b. Records shall be maintained on the type of VOL stored, the period of storage, and the maximum true vapor pressure (in psia) of the VOL stored during the respective storage period. Determination of the maximum true vapor pressure shall be done in accordance with 40 CFR §60.116b(e). The method used to determine the maximum true vapor pressure shall be identified in the records.

c. Records showing the dimensions (feet) of the storage tanks and the analysis showing the capacity (gallons or barrels) of the storage tanks shall be maintained for the life of the tank.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.115b, §60.116b)¹
9. Malfunctions

The permittee shall keep the following records for malfunctions:

a. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

b. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.11085(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11094)¹

Section E. Notification and Reporting Requirements

1. Tank Filling and Refilling (Tank No. 4129)

The permittee shall notify the Department in writing at least **thirty (30) days** prior to each time each storage tank is to be filled or refilled for which an inspection is required by Attachment IIA, Special Condition No. D.6. If the inspection required by Attachment IIA, Special Condition D.6 is unplanned and the required **thirty (30) day** advance notice cannot be given, the permittee shall notify the Department 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 receives the notice at least **seven (7) days prior** to the refilling.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.113b)¹

2. Annual Inspection Report (Tank No. 4129)

A report shall be submitted to the Department and U.S. EPA, Region 9, within **thirty (30) days** of the annual visual inspection required by Attachment IIA, Special Condition No. D.5, if any conditions described in Attachment IIA, Special Condition No. D.5 are detected. Each report shall identify the storage tank, the nature of 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, §11-60.1-11, §11-60.1-90, §11-60-161; 40 CFR §60.115b)¹
3. Other Inspection Reports (Tank No. 4129)

A report shall be submitted to the Department and U.S. EPA, Region 9, for inspections required by Attachment IIA, Special Condition No. D.4.b. This report shall be submitted within **thirty (30) days** if an inspection 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 IIA, Special Condition No. D.5. The report shall identify the storage tank and the reason it did not meet the specifications of Attachment IIA, Special Condition Nos. C.3.b through C.3.j or Attachment IIA, Special Condition No. D.4.b, and list each repair made.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60-161; 40 CFR §60.115b)\(^1\)

4. 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)

5. 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)

6. Annual Emissions

a. 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 (HAPs). 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 Form: Internal Floating Roof Storage Tanks**, shall be used for reporting.
b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department 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)

7. Compliance Certification

a. During the permit term, the permittee shall submit at least annually to the Department 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:

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

ii. The compliance status;

iii. Whether compliance was continuous or intermittent;

iv. The methods used for determining the compliance status of the source currently and over the reporting period;

v. 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;

vi. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and

vii. Any additional information as required by the Department, including information to determine compliance.

b. The compliance certification shall be submitted within sixty (60) days after the end of each calendar year and shall be signed and dated by a responsible official.

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

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

8. Notifications

a. The permittee shall submit to the Department 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 compliance options included in Table 1 of 40 CFR Part 63, Subpart BBBBBB, is used to comply with Subpart BBBBBB. The Notification of Compliance Status shall be submitted in accordance with Attachment IIA, Special Condition No. E.7.
b. The permittee shall submit to the Department and U.S. EPA, Region 9, additional notifications specified in 40 CFR §63.9, as applicable.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11093)¹

9. Monitoring Reports

The permittee shall submit semi-annually the following written reports to the Department 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).

a. A compliance report for Tank Nos. 4130, 4132, and 4133. The enclosed Monitoring Report Form: Internal Floating Roof Storage Tanks shall be used for reporting.

b. The number, duration, and a brief description of each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. Include a description of actions taken by the permittee during a malfunction to minimize emissions in accordance with 40 CFR §63.11085(a), including actions taken to correct a malfunction. The enclosed Monitoring Report Form: Malfunctions shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11095)¹

Section F. Agency Notification

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹The 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 pre-construction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

²The citations to the SIP identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.
ATTACHMENT IIB: SPECIAL CONDITIONS
TANK TRUCK LOAD RACK
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE  Expiration Date: DATE

In addition to the Standard Conditions of the CSP, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

1. Attachment IIB of this permit encompasses the following equipment and associated appurtenances:
   a. One (1) petroleum tank truck load rack:
      i. Bottom loading;
      ii. Two (2) gasoline loading arms and two (2) diesel No. 2/jet fuel loading arms; and
      iii. Ethanol injection system consisting of three (3) pumps, meters, pump headers, injectors, and related piping.
   b. One (1) 12.4 MMBtu/hr John Zink enclosed flame vapor combustion unit,
      Model No. ZCT-2-5-30-X-2/6-Flanged with a thirty (30) foot exhaust stack height.
      No steam assist. Uses propane for pilot gas.

      (Auth.: HAR §11-60.1-3)

2. The permittee shall attach an identification tag or nameplate on the equipment to show the model number, serial number, and manufacturer. The identification tag or name plate shall be permanently displayed on the equipment in a conspicuous location.

      (Auth.: HAR §11-60.1-5)

Section B. Applicable Federal Regulations

1. The petroleum tank truck load rack and associated appurtenances are subject to the provisions of the following federal regulations when loading gasoline:
   b. 40 CFR Part 60, Standards of Performance for New Stationary Sources, Subpart XX, Standards of Performance for Bulk Gasoline Terminals;
   c. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A, General Provisions; and

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, §11-60.1-174; 40 CFR §60.1, §60.500, §63.1, §63.11081)¹

2. 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 permit.

(Auth.: HAR §11-60.1-3, §11-60.1-90)

Section C. Operational Limitations

1. Petroleum Tank Truck Load Rack

   a. The maximum throughput of the petroleum tank truck load rack shall not exceed 1,460,000 barrels of gasoline per rolling twelve-month (12-month) period.

   b. The maximum throughput of the petroleum tank truck load rack shall not exceed 162,060 barrels of ethanol per rolling twelve-month (12-month) period.

   c. The maximum throughput of the petroleum tank truck load rack shall not exceed 1,095,000 barrels of diesel No. 2 and jet fuel combined per rolling twelve-month (12-month) period.

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

2. The permittee shall use submerged filling at the petroleum tank truck 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, §11-60.1-90, §11-60.1-174; 40 CFR §63.11088; 40 CFR Part 63, Subpart BBBBBB, Table 2)¹

3. The permittee shall install, maintain, and operate the vapor combustion unit as an air pollution control device for the petroleum tank truck load rack.

   (Auth.: HAR §11-60.1-3, §11.60.1-5, §11-60.1-90)

4. The vapor combustion unit shall be connected, fully functional, and operational at all times whenever the petroleum tank truck load rack is in operation loading gasoline or ethanol.

   (Auth.: HAR §11-60.1-3, §11.60.1-5, §11-60.1-90)

5. The vapor combustion unit shall be operated and maintained in accordance with the manufacturer’s specifications.

   (Auth.: HAR §11-60.1-3, §11.60.1-5, §11-60.1-90)
6. The permittee shall comply with the following requirements:

   a. The petroleum tank truck load rack shall be equipped with a vapor collection system designed to collect the total organic compounds vapors displaced from gasoline tank trucks during product loading.

   b. The emissions to the atmosphere from the vapor collection system due to the loading of liquid product into gasoline tank trucks shall not exceed thirty-five (35) milligrams of total organic compounds per liter of gasoline loaded.

   c. Each vapor collection system shall be designed to prevent any total organic compounds vapors collected at one loading rack or lane from passing to another loading rack or lane to the atmosphere.

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

      i. The permittee shall obtain the vapor tightness documentation described in Attachment IIB, Special Condition No. D.9 for each gasoline tank truck which is loaded at the subject facility.

      ii. The permittee shall require the tank identification number to be recorded as each gasoline tank truck is loaded at the subject facility.

      iii. The permittee shall cross-check each tank identification number obtained in Attachment IIB, Special Condition No. C.6.d.ii, with the file of tank vapor tightness documentation within two (2) weeks after the corresponding tank is loaded, unless either of the following conditions is maintained:

         (1) If less than an average of one (1) gasoline tank truck per month over the last twenty-six (26) weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed each quarter; or

         (2) If less than an average of one (1) gasoline tank truck per month over the last fifty-two (52) weeks is loaded without vapor tightness documentation then the documentation cross-check shall be performed semiannually.

         (3) If either the quarterly or semiannual cross-check reveals that these conditions were not maintained, the permittee must return to biweekly monitoring until such time as these conditions are again met.

      iv. The permittee shall notify the owner or operator of each non-vapor-tight gasoline tank truck loaded at the subject facility within one (1) week of the documentation cross-check in Attachment IIB, Special Condition No. C.6.d.iii.

      v. The permittee shall take steps assuring that the non-vapor-tight gasoline tank truck will not be reloaded at the subject facility until vapor tightness documentation for that tank is obtained.

      vi. Alternate procedures to Attachment IIB, Special Condition Nos. C.6.d.i thru C.6.d.v, for limiting gasoline tank truck loadings may be used upon application to, and approved by, the Department.
e. The permittee shall ensure that loadings of gasoline tank trucks at the subject facility are made only into tanks equipped with vapor collection equipment that is compatible with the terminal’s vapor collection system.

f. The permittee shall ensure that the terminal’s and the gasoline tank truck’s vapor collection systems are connected during each loading of a gasoline tank truck at the subject facility. Examples of actions to accomplish this include training drivers in the hookup procedures and posting visible reminder signs at the subject loading racks.

g. 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 Attachment IIB, Special Condition No. F.4.

h. 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, §11-60.1-90, §11-60.1-161; 40 CFR §60.502)¹

7. For any six (6) minute averaging period, the vapor combustion unit shall not exhibit visible emissions (VE) of twenty (20) percent opacity or greater, except as follows: during startup, shutdown, or equipment breakdown, the vapor combustion unit may exhibit VE not greater than sixty (60) percent opacity for a period aggregating not more than six (6) minutes in any sixty (60) minute period.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

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 or its representative(s) upon request.

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

2. The permittee shall maintain and operate a non-resetting volumetric flow meter to monitor the throughput of petroleum products (gasoline, ethanol, diesel No. 2, and jet fuel) at the petroleum tank truck load rack. The non-resetting meter shall not allow the manual resetting or other manual adjustments of the meter readings. The installation of any new non-resetting meters or the 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.

(Auth.: HAR §11-60.1-3, §11-60.1-5, §11-60.1-11, §11-60.1-90)
3. Each calendar month, the permittee shall inspect the vapor collection system, the vapor processing system, and each loading rack handling gasoline during the loading of gasoline tank trucks for total organic compounds liquid or vapor leaks. For purposes of this paragraph, detection methods incorporating sight, sound, or smell are acceptable. Each detection of a leak shall be recorded and the source of the leak repaired within **fifteen (15) calendar days** after it is detected. For equipment in gasoline service, leaks shall be inspected and repaired in accordance with Attachment IIC, Special Condition Nos. C.1 and C.2.  

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

4. The permittee shall maintain records on the following:

   a. Each monthly inspection performed, including the date(s) of inspections, findings, leak determination method, corrective actions taken, and the inspector’s name. Inspection findings shall state whether or not leaks were detected. For each leak detected, record the location, nature, and severity of each leak;

   b. Records of all equipment replaced or repaired; and

   c. The monthly and rolling twelve-month (12-month) throughputs of each petroleum product (gasoline, ethanol, diesel No. 2, and jet fuel) loaded. Monthly records shall include:

      i. Date of meter reading;
      ii. Meter reading at the beginning of each month;
      iii. Total throughputs of each product for each month; and
      iv. Total throughputs of each product on a rolling twelve-month (12-month) basis.

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

5. Malfunctions

   The permittee shall keep the following records for malfunctions:

   a. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment; and

   b. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.11085(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11094)
6. Visible Emissions

The permittee shall conduct **monthly** (calendar month) VE observations for the vapor combustion unit by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternate methods with prior written approval from the Department. 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**. The monthly VE observations are not required for the months that the vapor combustion unit did not operate.

(Auth.: HAR §11-60.1-3, §11-60.1-32, §11-60.1-90)

7. The permittee shall monitor the presence of a thermal oxidation system pilot flame using a heat-sensing device, such as an ultraviolet beam sensor or a thermocouple, installed in proximity of the pilot light, to indicate the presence of a flame. The heat-sensing device shall send a positive parameter value to indicate that the pilot flame is on, or a negative parameter value to indicate that the pilot flame is off.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11092)

8. The permittee shall develop and submit to the Department a monitoring and inspection plan that describes the permittee’s approach for meeting the requirements below:

   a. The thermal oxidation system shall be equipped to automatically prevent gasoline loading operations from beginning at any time that the pilot flame is absent.
   
   b. The permittee shall verify, during each day of operation of the loading rack, the proper operation of the assist-air blower and the vapor line valve. Verification shall be through visual observation, or through an automated alarm or shutdown system that monitors system operation. A manual or electronic record of the start and end of a shutdown event may be used.
   
   c. The permittee shall perform semi-annual preventative maintenance inspections of the thermal oxidation system, including the automated alarm or shutdown system for those units so equipped, according to the recommendations of the manufacturer of the system.
   
   d. The monitoring and inspection plan shall specify conditions that would be considered malfunctions of the thermal oxidation system during the inspections or automated monitoring performed in paragraphs b and c above, describe specific corrective actions that will be taken to correct any malfunction, and define what the permittee would consider to be a timely repair for each potential malfunction.
   
   e. The permittee shall document any system malfunction, as defined in the monitoring and inspection plan, and any activation of the automated alarm or shutdown system with a written entry into a logbook or other permanent form of record. Such record shall also include a description of the corrective action taken and whether such corrective actions were taken in a timely manner, as defined in the monitoring and inspection plan, as well as an estimate of the amount of gasoline loaded during the period of malfunction.
f. Malfunctions that are discovered shall not constitute a violation of the emission standard in Attachment IIB, Special Condition No. C.6.b, if corrective actions as described in the monitoring and inspection plan are followed. The permittee must:

i. Initiate corrective action to determine the cause of the problem within one (1) hour;
ii. Initiate corrective action to fix the problem within twenty-four (24) hours;
iii. Complete all corrective actions needed to fix the problem as soon as practicable consistent with good air pollution control practices for minimizing emissions;
iv. Minimize periods of start-up, shutdown, or malfunction; and
v. Take any necessary corrective actions to restore normal operation and prevent the recurrence of the cause of the problem.

g. The permittee shall keep an up-to-date, readily accessible copy of the monitoring and inspection plan.

h. The permittee shall keep an up-to-date, readily accessible copy of all system malfunctions, as specified in paragraph e above.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11092)\(^1\)

9. The permittee shall maintain a tank truck vapor tightness documentation file on all gasoline tank trucks loaded at the subject facility. 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, EPA Reference Method 27, Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test. This documentation file shall include, as a minimum, the following information:

a. Test title: Gasoline Delivery Tank Pressure Test - EPA Reference Method 27;
b. Tank truck owner and address;
c. Tank identification number;
d. Test location and date;
e. Tester name and signature;
f. Witnessing inspector, if any: Name, signature, and affiliation;
g. Vapor tightness repair: Nature of repair work and when performed in relation to vapor tightness testing; and
h. Test results: Test pressure, pressure or vacuum change, mm of water, time period of test, number of leaks found with instrument, and leak definition.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, §11-60.1-174; 40 CFR §60.505, §63.11094)\(^1\)

10. As an alternative to keeping records at the terminal of each gasoline tank truck as indicated in Attachment IIB, Special Condition No. D.9, the permittee may comply with the requirements in either paragraph a or b below:
a. An electronic copy of each record is instantly available at the terminal.
   i. The copy of each record is an exact duplicate image of the original paper record with certifying signatures.
   ii. The Department is notified in writing that each terminal using this alternative is in compliance with paragraph a.

b. For facilities that use a terminal automation system to prevent gasoline tank trucks that do not have valid tank truck vapor tightness documentation from loading (e.g., via a card lock-out system), a copy of the documentation is made available (e.g., via facsimile) for inspection by the Department during the course of a site visit, or within mutually agreeable time frame.
   i. The copy of each record is an exact duplicate image of the original paper record with certifying signatures.
   ii. The Department is notified in writing that each terminal using this alternative is in compliance with paragraph b.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161, §11-60.1-174; 40 CFR §60.505, §63.11094)¹

11. The permittee shall keep documentation of all notifications required per Attachment IIB, Special Condition No. C.6.d.iv on file.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.505)¹

12. The permittee shall keep records of all replacements or additions of components performed on an existing vapor processing system.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-161; 40 CFR §60.505)¹

13. The permittee shall make records available within twenty-four (24) hours of a request by the Department or the U.S. EPA, Region 9 to document the load rack’s average daily gasoline throughput.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11088; 40 CFR Part 63, Subpart BBBBBB, Table 2)¹

Section E. Notification and Reporting Requirements

1. 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)

2. 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 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

a. 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 HAPs. 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 Form: Tank Truck Load Rack shall be used for reporting.

b. Upon the written request of the permittee, the deadline for reporting of annual emissions may be extended, if the Department 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)

4. Compliance Certification

a. During the permit term, the permittee shall submit at least annually to the Department 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:

   i. The identification of each term or condition of the permit that is the basis of the certification;
   ii. The compliance status;
   iii. Whether compliance was continuous or intermittent;
   iv. The methods used for determining the compliance status of the source currently and over the reporting period;
   v. 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;
vi. Brief description of any deviations including identifying as possible exceptions to compliance any periods during which compliance is required and which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and

vii. Any additional information as required by the Department, including information to determine compliance.

b. The compliance certification shall be submitted within sixty (60) days after the end of each calendar year and shall be signed and dated by a responsible official.

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

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

5. Notifications

a. The permittee shall submit to the Department and U.S. EPA, Region 9, a Notification of Compliance Status as specified in 40 CFR §63.9(h). The Notification of Compliance Status shall be submitted in accordance with Attachment IIB, Special Condition No. E.4.

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

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11093)

6. Monitoring Reports

The permittee shall submit semi-annually the following written reports to the Department 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).

a. The petroleum tank truck load rack throughput. The enclosed Monitoring Report Form: Tank Truck Load Rack shall be used for reporting.

b. Any opacity exceedances as determined by the required VE monitoring. Each exceedance reported shall include the date, six (6) minute average opacity reading, possible reason for exceedance, duration of exceedance, and corrective actions taken. If there are no exceedances, the permittee shall submit in writing a statement indicating that for each equipment there were no exceedances for that semi-annual period. The enclosed Monitoring Report Form: Opacity Exceedances, shall be used.

c. A compliance report containing the following information:

For the petroleum tank truck load rack, each loading of a gasoline tank truck for which vapor tightness documentation had not been previously obtained by the facility.
d. The number, duration, and a brief description of each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. Include a description of actions taken by the permittee during a malfunction to minimize emissions in accordance with 40 CFR §63.11085(a), including actions taken to correct a malfunction. The enclosed Monitoring Report Form: Malfunctions shall be used for reporting.

e. An excess emissions report containing the following information:

i. Each instance of a non-vapor-tight gasoline tank truck loading at the facility in which the permittee failed to take steps to assure that such gasoline tank truck would not be reloaded at the facility before vapor tightness documentation for that gasoline tank truck was obtained.

ii. Each reloading of a non-vapor-tight gasoline tank truck at the facility before vapor tightness documentation for that gasoline tank truck is obtained by the facility in accordance with 40 CFR §63.11094(b).

iii. Each exceedance or failure to maintain, as appropriate, the monitored operating parameter value determined under 40 CFR §63.11092(b). The report shall include the monitoring data for the days on which exceedances or failures to maintain have occurred, and a description and timing of the steps taken to repair or perform maintenance on the vapor collection and processing system.

iv. Each instance in which malfunctions discovered during the monitoring and inspections required under Attachment IIB, Special Condition No. D.8, were not resolved according to the necessary corrective actions described in the monitoring and inspection plan. The report shall include a description of the malfunction and the timing of the steps taken to correct the malfunction.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11095)¹

7. The permittee shall notify the owner or operator of each non-vapor-tight gasoline tank truck loaded at the subject facility within one (1) week after the loading has occurred as required in Attachment IIB, Special Condition No. C.6.d.iv.

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

8. The permittee shall submit the serial number of the vapor combustion unit to the Department within five (5) working days after initial startup of the vapor combustion unit.

(Auth.: HAR §11-60.1-5, §11-60.1-90)
Section F.  Testing Requirements

1. Within sixty (60) days after achieving the maximum expected operating capacity of the vapor combustion unit, but not later than 180 days after the initial startup of the vapor combustion unit, and annually thereafter, the permittee shall conduct or cause to be conducted performance tests on the vapor processing and collection system to determine compliance with Attachment IIB, Special Condition Nos. C.6.b and C.6.g.

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

2. Immediately before the performance test required to determine compliance with Attachment IIB, Special Condition Nos. C.6.b and C.6.g, the permittee shall use Method 21 referenced in Appendix A of 40 CFR Part 60 to monitor for leakage of vapor all potential sources in the terminal's vapor collection system equipment while a gasoline tank truck is being loaded. The permittee shall repair all leaks with readings of 10,000 ppm (as methane) or greater before conducting the performance test.

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

3. The test methods and procedures are shown below and are referenced in Appendix A of 40 CFR Part 60. The permittee shall determine compliance with Attachment IIB, Special Condition No. C.6.b, as follows:

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

b. 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.

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

d. 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.

e. Method 2B shall be used for combustion vapor processing systems used to determine the volume (V_{esi}) air-vapor mixture exhausted at each interval.
f. Method 25A or 25B shall be used for determining the total organic compounds concentration \(C_{ei}\) at each interval. The calibration gas shall be either propane or butane. The permittee may exclude the methane and ethane content in the exhaust vent by any method (e.g., Method 18) approved by the Department.

g. To determine the volume (L) of gasoline dispensed during the performance test period at all loading racks whose vapor emissions are controlled by the processing system being tested, terminal records or readings from gasoline dispensing meters at each loading rack shall be used.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.503)

4. The permittee shall determine compliance with Attachment IIB, Special Condition No. C.6.g, as follows:

a. A pressure measurement device (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, shall be calibrated and installed on the terminal's vapor collection system at a pressure tap as close as possible to the connection with the gasoline tank truck.

b. During the performance test, the pressure shall be recorded every five (5) minutes while a gasoline 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.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.503)

5. The tests shall be made at the expense of the permittee including providing sampling and testing facilities. The Department may monitor the tests.

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

6. 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 before the tests.

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

7. **At least thirty (30) days prior to performing the performance test,** the permittee shall submit a written performance test plan to the Department and the U.S. EPA, Region 9, that describes the test date(s), test duration, test locations, test methods, source operation, and other parameters that may affect test results. Such a plan shall conform to U.S. EPA guidelines including quality assurance procedures. A performance test plan that does not have the approval of the Department may be grounds to invalidate any test and require a retest.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-161; 40 CFR §60.8)
8. **Within sixty (60) days after completion of the performance test**, the permittee shall submit to the Department and the U.S. EPA, Region 9, the test report which shall include the operating conditions of the petroleum tank truck loading rack at the time of the test, the summarized test results, comparative results with the permit emission limits, and other pertinent field and laboratory data.

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

9. Upon written request and justification, the Department 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, §11-60.1-161; 40 CFR §60.8)

**Section G. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

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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 pre-construction and operating permit requirements, permit conditions may incorporate more stringent requirements than those set forth in the CFR.

2 The citations to the SIP identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.
ATTACHMENT IIC: SPECIAL CONDITIONS
EQUIPMENT IN GASOLINE SERVICE
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE Expiration Date: DATE

In addition to the standard conditions of the CSP, the following special conditions shall apply to the permitted facility:

Section A. Equipment Description

Attachment IIC of this permit encompasses each piece of equipment used in a system that transfers gasoline or gasoline vapors. Equipment under Attachment IIC 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 IIC 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 IIC and the following federal regulations:

   a. 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants for Source Categories, Subpart A, General Provisions; and

   (Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 40 CFR §63.11081)

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)

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 logbook shall be used and shall be signed by the permittee at the completion of each inspection. A section of the logbook 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 logbook.

(Auth.: HAR §11-60.1-3, §11-60.1-90, §11-60.1-174; 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 IIC, 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, §11-60.1-174; 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 or its representative(s) upon request.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §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 logbook for each leak that is detected the following information:

   i. The equipment type and identification number;
   ii. The nature of the leak (i.e., vapor or liquid) and the method of detection (i.e., sight, sound, or smell);
iii. The date the leak was detected and the date of each attempt to repair the leak;
iv. Repair methods applied in each attempt to repair the leak;
v. “Repair delayed” and the reason for the delay if the leak is not repaired within fifteen (15) calendar days after discovery of the leak;
vi. The expected date of successful repair of the leak if the leak is not repaired within fifteen (15) days;
vii. The date of successful repair of the leak; and
viii. Inspector’s name and signature.

(Auth: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11094)¹

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. 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)

3. Compliance Certification

a. During the permit term, the permittee shall submit at least annually to the Department 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:
i. The identification of each term or condition of the permit that is the basis of the certification;
ii. The compliance status;
iii. Whether compliance was continuous or intermittent;
iv. The methods used for determining the compliance status of the source currently and over the reporting period;
v. 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;
vi. Brief description of any deviations including identifying as possible exceptions to compliance and periods during which compliance is required and which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
vii. Any additional information as required by the Department, including information to determine compliance.

b. The compliance certification shall be submitted within sixty (60) days after the end of each calendar year, and shall be signed and dated by a responsible official.

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

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

4. Notifications

a. The permittee shall submit to the Department and U.S. EPA, Region 9, a Notification of Compliance Status as specified in 40 CFR §63.9(h). Notification of compliance status shall be submitted in accordance with Attachment IIC, Special Condition No. E.3.

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

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.9, §63.11093)

5. Monitoring Reports

The permittee shall submit semi-annually the following written reports to the Department 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).

a. For equipment leak inspections, the number of equipment leaks not repaired within fifteen (15) days after detection. The enclosed Monitoring Report Form: Equipment Leaks shall be used for reporting.
b. An excess emissions report containing the following information:

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:

i. The date on which the leak was detected;
ii. The date of each attempt to repair the leak;
iii. The reasons for the delay of repair; and
iv. The date of successful repair.

The enclosed Excess Emissions Report Form: Equipment Leaks shall be used for reporting.

(Auth.: HAR §11-60.1-3, §11-60.1-11, §11-60.1-90, §11-60.1-174; 40 CFR §63.11089, §63.11095)¹

**Section F. Agency Notification**

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)

¹The 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.

²The citations to the SIP identified under a particular condition, indicate that the permit condition complies with the specified provision(s) of the SIP.
ATTACHMENT II - INSIG: SPECIAL CONDITIONS
INSIGNIFICANT ACTIVITIES
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE  Expiration Date: DATE

In addition to the Standard Conditions of the CSP, the following Special Conditions shall apply to the permitted facility:

Section A. Equipment Description

This attachment encompasses the following insignificant activities:

1. One (1) fixed roof Tank No. 4134 (18,100 bbls) - low sulfur diesel/jet fuel storage;
2. Two (2) portable storage tanks (350 gallons each) - additive storage;
3. Ethanol off-loading skid;
   a. Off-loads ethanol from tank trucks into petroleum storage tanks;
   b. Consists of hose, pump header and related piping;
4. Ethanol injection system;
5. 500-gallon propane tank for VCU pilot gas;
6. Jet fuel processing equipment. The jet fuel processing equipment include the following:
   a. Jet fuel pre-treatment vessel;
   b. Jet fuel transfer pump;
   c. Jet fuel filter/separator system – removes sediment and water from jet fuel downstream of Tank No. 4134, consists of two (2) vessels each containing an internal filter and coalesce;
   d. Tank No. 4134 water removal system – removes water from Tank No. 4134 bottoms, consists of a collection tank and pump;
   e. Portable storage tank – water and sediment drained from filter/separator vessels; and
   f. Portable storage tank – jet samples.

(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 for VE, fugitive dust, incineration, process industries, sulfur oxides from fuel combustion, storage of volatile organic compounds, volatile organic compound water separation, pump and compressor requirements, and waste gas disposal.

(Auth.: HAR §11-60.1-3, §11-60.1-82, §11-60.1-90)
2. The Department 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 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 true, accurate and 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 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

Compliance Certification

During the permit term, the permittee shall submit at least annually to the Department and U.S. 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 include, at a minimum, the following information:

1. The identification of each term or condition of the permit that is the basis of the certification;
2. The compliance status;
3. Whether compliance was continuous or intermittent;
4. The methods used for determining the compliance status of the source currently and over the reporting period;
5. 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;
6. Brief description of any deviations including identifying as possible exceptions to compliance and periods during which compliance is required and which the excursion or exceedances as defined in 40 CFR Part 64 occurred; and
7. Any additional information as required by the Department including information to determine compliance.
The compliance certification shall be submitted within sixty (60) days after the end of each calendar year, and shall be signed and dated by a responsible official.

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

In lieu of addressing each emission unit as specified in the 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.

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

(Auth.: HAR §11-60.1-4, §11-60.1-90)
ATTACHMENT III: ANNUAL FEE REQUIREMENTS
COVERED SOURCE PERMIT NO. 0382-02-C

| Issuance Date: | DATE | Expiration Date: | 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 the following requirements are in conflict with the provisions of HAR, Chapter 60.1, the permittee shall comply with the provisions of HAR, Chapter 60.1:

1. Annual fees shall be paid in full:
   a. Within 120 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 HAR, 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 be submitted on forms furnished by the Department.

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

   State of Hawaii
   Clean Air Branch
   2827 Waimano Home Road, #130
   Pearl City, HI 96782
ATTACHMENT IV: ANNUAL EMISSIONS REPORTING REQUIREMENTS
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE  Expiration Date: DATE

In accordance with the 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 form(s):

   Annual Emissions Report Form: Internal Floating Roof Storage Tanks
   Annual Emissions Report Form: Tank Truck 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 within sixty (60) days after the end of each calendar year and shall be mailed to the following address:

   State of Hawaii
   Clean Air Branch
   2827 Waimano Home Road, #130
   Pearl City, HI  96782

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 upon request.

4. Any information submitted to the Department 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 manufacture, by submitting a written request to the Director and clearly identifying the specific information that is to be accorded confidential treatment.
### COMPLIANCE CERTIFICATION FORM

**COVERED SOURCE PERMIT NO. 0382-02-C**

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In accordance with the Hawaii Administrative Rules (HAR), 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 HAR, Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.
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

<table>
<thead>
<tr>
<th>Permit term/condition</th>
<th>Equipment</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>All standard conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Permit term/condition</th>
<th>Equipment</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>All monitoring conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
<tr>
<td>All recordkeeping conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
<tr>
<td>All reporting conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
<tr>
<td>All testing conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
<tr>
<td>All INSIG conditions</td>
<td>All Equipment listed in the permit</td>
<td>□ Continuous □ Intermittent</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Permit term/condition</th>
<th>Equipment(s)</th>
<th>Method</th>
<th>Compliance</th>
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</thead>
<tbody>
<tr>
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<td>☐ monitoring</td>
<td>☐ Continuous</td>
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<td>☐ none of the above</td>
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<td>☐ monitoring</td>
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<td>☐ recordkeeping</td>
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<td>☐ none of the above</td>
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<td>☐ recordkeeping</td>
<td>☐ Intermittent</td>
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<td>☐ monitoring</td>
<td>☐ Continuous</td>
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<td>☐ monitoring</td>
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<td>☐ recordkeeping</td>
<td>☐ Intermittent</td>
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<td>☐ reporting</td>
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<td>☐ testing</td>
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<td></td>
<td>☐ none of the above</td>
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</tr>
</tbody>
</table>

(Make Additional Copies if Needed)
D. Deviations

<table>
<thead>
<tr>
<th>Permit Term/Condition</th>
<th>Equipment(s) / Brief Summary of Deviation</th>
<th>Deviation Period time (am/pm) &amp; date (mo/day/yr)</th>
<th>Date of Written Deviation Report to DOH (mo/day/yr)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Beginning:</td>
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<td></td>
<td>Ending:</td>
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<td>Ending:</td>
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</tbody>
</table>

*Identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred.

(Make Additional Copies if Needed)
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 nature and amounts of emissions.

For Reporting Period: ______________________ Date: ______________

Company: ________________________________

Facility Name: ________________________________

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 and Phone Number: ________________________________

Responsible Official (Signature): ______________________

<table>
<thead>
<tr>
<th>TANK NUMBER</th>
<th>4129</th>
<th>4130</th>
<th>4132</th>
<th>4133</th>
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</thead>
<tbody>
<tr>
<td>TANK CAPACITY (gallons)</td>
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<tr>
<td>TANK DIAMETER (ft)</td>
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<tr>
<td>TANK EXTERIOR COLOR</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>NO. OF TURNOVERS</td>
<td></td>
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<tr>
<td>PRODUCT TYPE</td>
<td></td>
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<tr>
<td>REID VAPOR PRESSURE (psia)</td>
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<tr>
<td>TRUE VAPOR PRESSURE (psia)</td>
<td></td>
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<tr>
<td>VAPOR MOLECULAR WEIGHT</td>
<td></td>
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<tr>
<td>DISTILLATION SLOPE</td>
<td></td>
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<tr>
<td>AVG. STORAGE TEMP. (°F)</td>
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<td></td>
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<tr>
<td>ANNUAL THROUGHPUT (gallons)</td>
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</tbody>
</table>
### ANNUAL EMISSIONS REPORT FORM
INTERNAL FLOATING ROOF STORAGE TANKS
COVERED SOURCE PERMIT NO. 0382-02-C
(CONTINUED, PAGE 2 OF 2)

COMPLETE THIS SHEET FOR EACH STORAGE TANK (Make Copies As Needed)

<table>
<thead>
<tr>
<th>TANK NO.</th>
<th>DECK FITTINGS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Access hatch (24&quot; dia)</td>
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<td>Fixed roof support column well</td>
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<td>Unslotted guide-pole and well</td>
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<td>Slotted guide-pole/sample well</td>
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<td>Automatic gauge float well</td>
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<tr>
<td></td>
<td>Ladder well</td>
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</tr>
</tbody>
</table>

**Type of deck (check one)**
- ___ Column-supported fixed roof with bolted deck, total length of deck seams ________ ft
- ___ Column-supported fixed roof with welded deck
- ___ Self-supporting fixed roof with bolted deck, total length of deck seams ________ ft
- ___ Self-supporting fixed roof with welded deck
- ___ Other, describe ____________ total length of deck seams ________ ft

**Type of rim-seal system (check all that apply)**
- ___ Mechanical shoe seal
- ___ Liquid mounted seal
- ___ Vapor mounted seal
- ___ Primary only
- ___ Primary only
- ___ Primary only
- ___ Shoe mounted secondary
- ___ Weather shield
- ___ Weather shield
- ___ Rim mounted secondary
- ___ Rim mounted secondary
- ___ Rim mounted secondary
- ___ Rim mounted secondary
ANNUAL EMISSIONS REPORT FORM
TANK TRUCK LOAD RACK
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE Expiration Date: DATE

In accordance with Hawaii Administrative Rules, 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: ________________________________________________

Facility Name: ________________________________________________

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 and Phone Number: _______________________________________

Responsible Official (signature) _______________________________________

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

<table>
<thead>
<tr>
<th>Product</th>
<th>Total Throughput (barrels/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td></td>
</tr>
<tr>
<td>Diesel/Jet Fuel</td>
<td></td>
</tr>
</tbody>
</table>
MONITORING REPORT FORM
INTERNAL FLOATING ROOF STORAGE TANKS
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE                     Expiration Date: DATE

In accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health and U.S. EPA, Region 9, the following information semi-annually:

(Make Copies for Additional Use)

For Reporting Period: ___________________________ Date: ______________

Company: ____________________________________________

Facility Name: _________________________________________

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 and Phone Number: ________________________________________________

Responsible Official (signature) ___________________________________________

1. Report true vapor pressure exceedances above 11.1 psia for the reporting period:

<table>
<thead>
<tr>
<th>Tank No.</th>
<th>True Vapor Pressure (psia)</th>
<th>How Determined</th>
<th>Type of Fuel Stored</th>
<th>Period of Exceedance</th>
<th>Storage Temperature (°F)</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Tank No.</th>
<th>Inspection Date</th>
<th>Deficiencies/Defects Description</th>
<th>Date and Repair Made</th>
<th>Date Tank was Last emptied</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

3. For the reporting period, attach the information required from 40 CFR §60.115b(a) for complying with Option 2(b) in Table 1 of 40 CFR Part 63, Subpart BBBBBBB as applicable for Tank Nos. 4130, 4132, and 4133.

4. Identify deviations from permit requirements.
### MONITORING REPORT FORM
**TANK TRUCK LOAD RACK**  
**COVERED SOURCE PERMIT NO. 0382-02-C**

**Issuance Date:** DATE  
**Expiration Date:** DATE

In accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health and U.S. EPA, Region 9, the following information *semi-annually*:  

(Make Copies for Additional Use)

<table>
<thead>
<tr>
<th>For Reporting Period:</th>
<th>Date:______________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company:</td>
<td></td>
</tr>
<tr>
<td>Facility Name:</td>
<td></td>
</tr>
</tbody>
</table>

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 and Phone Number:______________________________________________________

Responsible Official (signature)___________________________________________________

1. Report the petroleum tank truck load rack throughput for the reporting period:

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>January</td>
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<td>December</td>
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</table>

2. Identify deviations from permit requirements.
MONITORING REPORT FORM
OPACITY EXCEEDANCES
COVERED SOURCE PERMIT NO. 0382-02-C

Issuance Date: DATE Expiration Date: 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:

For Period: _________________________________ Date: ______________

Company: _______________________________________________________

Facility Name: ___________________________________________________

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 and Phone Number: _________________________________________

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.

<table>
<thead>
<tr>
<th>EQUIPMENT or EMISSION POINT DESCRIPTION</th>
<th>SERIAL/ID NO.</th>
<th>DATE</th>
<th>6 MIN. AVER. (%)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
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</table>
In accordance with Hawaii Administrative Rules, Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health and U.S. Environmental Protection Agency, Region 9, the following information **semi-annually**: (Make Copies for Additional Use)

For Reporting Period: ________________ Date: ________________

Company: ____________________________________________

Facility Name:__________________________________________

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 and Phone Number: ____________________________________________

Responsible Official (Signature): ____________________________________________

For equipment leak inspection and repair performed in accordance with Attachment IIC, report each leak not repaired within fifteen (15) days after detection:

<table>
<thead>
<tr>
<th>Leak Detection Date</th>
<th>Equipment Type and Identification Number</th>
<th>Reasons Why Repair Not Feasible</th>
<th>Date Repair Completed</th>
</tr>
</thead>
<tbody>
<tr>
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</table>
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(Make Copies for Additional Use)

For Reporting Period: ___________________________  Date: ______________

Company: ___________________________

Facility Name: ___________________________

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 and Phone Number: ____________________________________________

Responsible Official (signature) ___________________________________________

Report each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emissions limitation to be exceeded:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Duration</th>
<th>Corrective Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
In accordance with Title 11, Chapter 60.1, Air Pollution Control, the permittee shall report to the Department of Health and U.S. Environmental Protection Agency, Region 9, the following information **semi-annually**:

(Make Copies for Additional Use)

For Reporting Period:__________________________ Date:________________

Company: ________________________________________________

Facility Name: _____________________________________________

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 and Phone Number:__________________________________________________________

Responsible Official (signature)_____________________________________________________

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:

<table>
<thead>
<tr>
<th>Date Leak Detected</th>
<th>Date of Each Attempt to Repair Leak</th>
<th>Reasons for Delay of Repair</th>
<th>Date of Successful Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
The Visible Emissions (VE) Form shall be completed monthly (each calendar month) for each equipment subject to opacity limits by a certified reader in accordance with 40 CFR Part 60, Appendix A, Method 9, or U.S. EPA approved equivalent methods, or alternative methods with prior written approval from the Department. The VE Form shall be completed as follows:

1. VE observations shall take place during the day only. 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 VE Form using the symbols as shown.

3. For VE observations of stacks, stand at least three (3) stack heights but not more than a quarter mile from the stack.

4. For VE observations of fugitive emissions from crushing and screening plants, stand at least 4.57 meters (fifteen (15) feet) from the VE source, but not more than a quarter mile from the VE source.

5. Two (2) consecutive six (6) minute observations shall be taken at fifteen (15) second intervals for each stack or emission point.

6. The six (6) minute average opacity reading shall be calculated for each observation.

7. 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.

8. 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 VE 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, or their 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 VE monitoring requirements for the month the performance test is performed.
**VISIBLE EMISSIONS FORM**
**COVERED SOURCE PERMIT NO. 0382-02-C**

**ISSUANCE DATE:**

**EXPIRATION DATE:**

(Make copies for future use for each stack or emission point)

Company Name: ____________________________

For stacks, describe equipment and fuel: ____________________________

For fugitive emissions from crushers and screens, describe:

  - Fugitive emission point:
  - Plant Production (tons/hr):__________
    (During observation)

**SITE CONDITIONS:**

Emission point or stack height above ground (ft):__________

Emission point or 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:__________________________

<table>
<thead>
<tr>
<th>MINUTES</th>
<th>SECONDS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Six (6) Minute Average Opacity Reading (%): ____________________________

Observation Date and Start Time:__________________________

<table>
<thead>
<tr>
<th>MINUTES</th>
<th>SECONDS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Six (6) Minute Average Opacity Reading (%): ____________________________
Draft Review Summary
Covered Source Permit Review Summary

Application No.: Renewal Application No. 0382-10

Permit No.: Covered Source Permit (CSP) No. 0382-02-C

Applicant: Par Hawaii, LLC

Facility: Kawaihae Terminal
Petroleum Bulk Loading Terminal
61-3651 Kawaihae Road, Kawaihae, Hawaii

Mailing Address: Par Hawaii, LLC
1132 Bishop Street, Suite 2500
Honolulu, Hawaii 96813

Responsible Official: Mr. Eric Wright
Senior Vice President
(808) 203-2346

Point of Contact: Mr. Patrick Iona
Environmental Health and Safety Manager
(808) 547-3964

Plant Manager: Mr. Francis Livingston
Lead Operator
(808) 887-7311

Application Dates: Renewal application dated October 7, 2019; and
Additional information received on May 17, 2021.

Proposed Project:

SICC 5171 (Petroleum Bulk Stations and Terminals)

Renewal Application No. 0382-10
Par Hawaii, LLC owns and operates an existing petroleum bulk loading terminal located in Kawaihae, Hawaii. The Kawaihae marine terminal receives gasoline, jet fuel, and diesel products from barges in Kawaihae Harbor via a barge header and underground pipeline system. These products are stored in several above ground storage tanks and then bottom loaded into outbound tank trucks at the tank truck load rack. Ethanol is in-line blended with gasoline to produce finished gasoline at the tank truck load rack.

Currently, the permit has throughput limits for the barge off-loading headers, it is requested that the throughput limits for the barge off-loading headers be removed. When off-loading a barge there are no emissions, there are emissions only when loading a product onto barges or when ballasting and using tanks that previously held product. At the Kawaihae Terminal, there is no loading of barges and there is no ballasting on the barges which would displace vapors in the tanks. Product is pumped to the terminal from the barge and the vapors are controlled at the
tanks with internal floating roofs. There is no transferring of product back to the barge, although it was attempted once unsuccessfully. The barge tried “pulling” the product back to the barge using pumps on the barge, but that was not successful. Except for this one attempt, pumping to a barge is not a procedure used by the terminals practice. The terminal does not have the necessary cargo pumps or the capability to pump to a barge.

If attempted again, it would only be for jet fuel, which has low emissions, but is normally checked for specifications before it gets to the terminal. Other products are also tested prior to storage at the terminal and if off-specification, would be managed at the location.

The terminal recently completed the installation of piping within the terminal that would allow the receipt of ethanol through the gasoline product line from the pier, if needed. This involved connecting the gasoline pipe inside the terminal with the ethanol tank. Ethanol is still currently being received by tank truck. Again, request that this not be included with the barge header throughput limits. All barge off-loading results in emissions at the terminal and is no different than filling of tanks by any other method. The throughput at the load rack for ethanol is still the same and emissions are the same at the ethanol tank and the load rack.

The renewal application fee for a nonmajor, non-toxic covered source of $500.00 was submitted and processed.

**Equipment Description:**

**Petroleum Storage Tanks**

<table>
<thead>
<tr>
<th>Tank No.</th>
<th>Type of Tank</th>
<th>Storage Capacity (barrels)</th>
<th>Permitted Product Stored</th>
<th>Typical Product Stored</th>
<th>Year Built</th>
</tr>
</thead>
<tbody>
<tr>
<td>4129</td>
<td>Internal Floating Roof</td>
<td>1,600</td>
<td>Gasoline</td>
<td>Ethanol</td>
<td>1959</td>
</tr>
<tr>
<td>4130</td>
<td>Internal Floating Roof</td>
<td>4,000</td>
<td>Gasoline</td>
<td>Gasoline</td>
<td>1959</td>
</tr>
<tr>
<td>4132</td>
<td>Internal Floating Roof</td>
<td>7,500</td>
<td>Gasoline</td>
<td>Gasoline</td>
<td>1959</td>
</tr>
<tr>
<td>4133</td>
<td>Internal Floating Roof</td>
<td>10,100</td>
<td>Gasoline</td>
<td>Gasoline</td>
<td>1959</td>
</tr>
</tbody>
</table>

**Loading Units**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Product</th>
<th>Year Built</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Tank Truck Load Rack</td>
<td>Gasoline, Ethanol, Diesel No. 2, Jet Fuel</td>
<td>1960, 2019 (additional diesel No. 2/jet fuel loading arm)</td>
</tr>
<tr>
<td>One (1) 12.4 MMBtu/hr John Zink enclosed flame vapor combustion unit, Model No. ZCT-2-5-30-X-2/6-Flanged with a thirty (30) foot exhaust stack height. No steam assist. Uses propane for pilot gas.</td>
<td>Gasoline, Ethanol</td>
<td>2016 (startup)</td>
</tr>
</tbody>
</table>
### Maximum Allowable Throughputs of Loading Units

<table>
<thead>
<tr>
<th>Product</th>
<th>Petroleum Truck Loading Rack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>1,460,000 barrels per year (61,320,000 gallons per year)</td>
</tr>
<tr>
<td>Ethanol</td>
<td>162,060 barrels per year (6,806,520 gallons per year)</td>
</tr>
<tr>
<td>Diesel No. 2 and Jet Fuel</td>
<td>1,095,000 barrels per year (45,990,000 gallons per year)</td>
</tr>
</tbody>
</table>

### Air Pollution Controls:

Storage tank volatile organic compound (VOC) emissions are controlled using the following air pollution controls: Tank No. 4129 will be equipped with a NSPS Subpart Kb internal floating roof and seals. Tank Nos. 4130, 4132, and 4133 are equipped with internal floating roofs and seals. The petroleum tank truck load rack is bottom loading and has a VCU to control VOC emissions.

### Applicable Requirements:

**Hawaii Administrative Rules (HAR)**
- Title 11, Chapter 11-59, Ambient Air Quality Standards
- Title 11, Chapter 11-60.1, Air Pollution Control
  - Subchapter 1, General Requirements
  - Subchapter 2, General Prohibitions
    - 11-60.1-31 Applicability
    - 11-60.1-39 Storage of Volatile Organic Compounds
  - Subchapter 5, Covered Sources
  - Subchapter 6, Fees for Covered Sources, Noncovered Sources, and Agricultural Burning
    - 11-60.1-111 Definitions
    - 11-60.1-112 General Fee Provisions for Covered Sources
    - 11-60.1-113 Application Fees for Covered Sources
    - 11-60.1-114 Annual Fees for Covered Sources
    - 11-60.1-115 Basis of Annual Fees for Covered Sources
  - Subchapter 8, Standards of Performance for Stationary Sources
    - 11-60.1-161 New Source Performance Standards
  - Subchapter 9, Hazardous Air Pollutant Sources
    - 11-60.1-174 Maximum Achievable Control Technology (MACT) Emission Standards

**Federal Requirements**
  - 40 CFR Part 60, Subpart XX - Standard of Performance for Bulk Gasoline Terminals – the applicant has voluntarily requested Subpart XX be applicable to the petroleum tank truck load rack.

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 - is applicable to all tanks in gasoline service (Tank Nos. 4129, 4130, 4132, and 4133), the petroleum tank truck load rack, and fugitive components in gasoline service and as an existing facility, is required to be in compliance no later than January 10, 2011. Using the throughput of 1,460,000 barrels of gasoline per any rolling twelve-month (12-month) period, the petroleum tank truck load rack has a total throughput of less than 250,000 gallons per day of gasoline. Per the requirements in Table 2 of Subpart BBBBBB, the facility is in compliance as it uses submerged filling with a submerged fill pipe (no more than six (6) inches from the bottom of the cargo tank) and keeps records of all throughputs that are available upon request.

Non-Applicable Requirements:

Hawaii Administrative Rules (HAR)
Title 11, Chapter 11-60.1, Air Pollution Control
Subchapter 7, Prevention of Significant Deterioration Review
Subchapter 9, Hazardous Air Pollutant Sources
11-60.1-180 National Emission Standards for Hazardous Air Pollutants

Federal Requirements
40 CFR Part 52.21 - Prevention of Significant Deterioration of Air Quality
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40 CFR Part 63, Subpart R - National Emission Standards for Hazardous Air Pollutants for Gasoline Distribution Facilities - is not applicable to the facility because the facility is not a major source of HAPs.

Prevention of Significant Deterioration (PSD):

This source is not a major stationary source nor are there modifications proposed that by itself constitute a major stationary source that is subject to PSD review. Therefore, a PSD review is not applicable.

Best Available Control Technology (BACT):

A BACT analysis is required for new covered sources or significant modifications to covered sources that have the potential to emit or increase emissions above significant amounts as defined in HAR §11-60.1. A BACT analysis is not applicable for this permit renewal since there are no emission increases for this existing covered source.
Compliance Assurance Monitoring (CAM):

The purpose of CAM is to provide a reasonable assurance that compliance is being achieved with large emissions units that rely on air pollution control device equipment to meet an emissions limit or standard. Pursuant to 40 CFR Part 64, for CAM to be applicable, the emissions unit must:

1. Be located at a major source;
2. Be subject to an emissions limit or standard;
3. Use a control device to achieve compliance;
4. Have potential pre-control emissions that are one hundred (100) percent of the major source level; and
5. Not otherwise be exempt from CAM. CAM is not applicable because this is not a major source.

Air Emissions Reporting Requirements (AERR):

40 CFR Part 51, Subpart A – AERR, is based on the emissions of criteria air pollutants from Type B point sources (as defined in 40 CFR Part 51, Subpart A), that emit at the AERR triggering levels as shown in the table below.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Type B AERR Triggering Levels¹ (tpy)</th>
<th>Pollutant</th>
<th>In-house Total Facility Triggering Levels¹ (tpy)</th>
<th>Potential Emissions (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOₓ</td>
<td>≥ 100</td>
<td>NOₓ</td>
<td>≥ 25</td>
<td>1.14</td>
</tr>
<tr>
<td>SOₓ</td>
<td>≥ 100</td>
<td>SOₓ</td>
<td>≥ 25</td>
<td>0.008</td>
</tr>
<tr>
<td>CO</td>
<td>≥ 1000</td>
<td>CO</td>
<td>≥ 250</td>
<td>2.84</td>
</tr>
<tr>
<td>PM₁₀/PM₂.₅</td>
<td>≥ 100/100</td>
<td>PM/PM₁₀</td>
<td>≥ 25/25</td>
<td>PM/PM₁₀/PM₂.₅ = 0.064</td>
</tr>
<tr>
<td>VOC</td>
<td>≥ 100</td>
<td>VOC</td>
<td>≥ 25</td>
<td>22.5</td>
</tr>
<tr>
<td>Pb</td>
<td>≥ 0.5 (actual)</td>
<td>Pb</td>
<td>≥ 5</td>
<td>0</td>
</tr>
<tr>
<td>HAPs</td>
<td></td>
<td>HAPs</td>
<td>≥ 5</td>
<td>1.53</td>
</tr>
</tbody>
</table>

¹Based on potential emissions

This facility does not emit at the AERR triggering levels. Therefore, AER requirements are not applicable.

Although AERR for the facility is not triggered, the Clean Air Branch requests annual emissions reporting from those facilities that have facility-wide emissions of a single air pollutant exceeding in-house triggering levels or is a covered source. Annual emissions reporting for the facility will be required for in-house recordkeeping purposes since this is a covered source.

Synthetic minor:

A synthetic minor is a facility that without operational limitations, emits above the major source triggering levels as defined by HAR §11-60.1-1, but is made non-major by using operational limitations. This facility is a synthetic minor, but is not an SM-80 source.
Project Emissions:

<table>
<thead>
<tr>
<th>Source</th>
<th>VOC Emissions (tpy)</th>
<th>VOC Emissions (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank No. 4129</td>
<td>2.16&lt;sup&gt;3&lt;/sup&gt;</td>
<td>1.15&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank No. 4130</td>
<td>2.59&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1.90&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank No. 4132</td>
<td>1.43&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1.16&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank No. 4133</td>
<td>1.91&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1.57&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank No. 4134</td>
<td>0.79&lt;sup&gt;4&lt;/sup&gt;</td>
<td>0.41&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank Truck Load Rack (escaping VCU collection, from tank truck)</td>
<td>7.92&lt;sup&gt;2&lt;/sup&gt;</td>
<td>5.1&lt;sup&gt;10&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank Truck Load Rack with VCU, (controlled)</td>
<td>10.01&lt;sup&gt;5&lt;/sup&gt;</td>
<td>9.9&lt;sup&gt;6,7,8,9&lt;/sup&gt;</td>
</tr>
<tr>
<td>Tank Truck Load Rack, (uncontrolled)</td>
<td></td>
<td>1.1&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
<tr>
<td>Fugitive Components</td>
<td>0.19</td>
<td>0.19</td>
</tr>
<tr>
<td><strong>Total Emissions</strong></td>
<td>27.0&lt;sup&gt;1&lt;/sup&gt;</td>
<td>22.5&lt;sup&gt;16&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

VCU Criteria Pollutants Emissions

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>tpy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO</td>
<td>2.84&lt;sup&gt;11&lt;/sup&gt;</td>
</tr>
<tr>
<td>NO&lt;sub&gt;x&lt;/sub&gt;</td>
<td>1.14&lt;sup&gt;11&lt;/sup&gt;</td>
</tr>
<tr>
<td>SO&lt;sub&gt;2&lt;/sub&gt;</td>
<td>0.008&lt;sup&gt;12,13&lt;/sup&gt;</td>
</tr>
<tr>
<td>PM&lt;sub&gt;10&lt;/sub&gt;</td>
<td>0.064&lt;sup&gt;14,15&lt;/sup&gt;</td>
</tr>
<tr>
<td>PM&lt;sub&gt;2.5&lt;/sub&gt;</td>
<td>0.064&lt;sup&gt;14,15&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

HAP Emissions

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>tpy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>0.09</td>
</tr>
<tr>
<td>Cresol</td>
<td>0.70</td>
</tr>
<tr>
<td>Cumene</td>
<td>0.05</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>0.45</td>
</tr>
<tr>
<td>n-Hexane</td>
<td>0.12</td>
</tr>
<tr>
<td>Methyl isobutyl ketone</td>
<td>0.06</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>0.06</td>
</tr>
<tr>
<td>Phenol</td>
<td>0.06</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.06</td>
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<tr>
<td>Xylenes (m-)</td>
<td>0.12</td>
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<tr>
<td>Xylenes (o-)</td>
<td>0.05</td>
</tr>
<tr>
<td>Xylenes (p-)</td>
<td>0.06</td>
</tr>
<tr>
<td><strong>Total HAP Emissions</strong></td>
<td>1.53</td>
</tr>
</tbody>
</table>

1<sup>Based on 87 gasoline and a throughput of 4,229,000 gallons per year.</sup>
2<sup>Based on 87 gasoline and a throughput of 10,572,000 gallons per year.</sup>
3<sup>Based on 92 gasoline and a throughput of 19,823,000 gallons per year.</sup>
4<sup>Based on 87 gasoline and a throughput of 26,695,000 gallons per year.</sup>
5<sup>Based on jet/diesel and a throughput limit of 1,095,000 barrels or 45,990,000 gallons per year.</sup>
6<sup>Based on a throughput limit of 1,460,000 barrels of gasoline and 162,060 barrels of ethanol per year.</sup>
7<sup>Only gasoline and denatured ethanol loading operations will be controlled by the VCU.</sup>
8<sup>Tank truck load rack emission rate uses a vapor recovery operational standard of 35 mg/liter (NSPS, Subpart XX).</sup>
9<sup>VCU emissions includes propane pilot and assist gas combustion.</sup>
10<sup>VCU has a capture efficiency of 98.7%.</sup>
11<sup>NO<sub>x</sub>, and CO emission factors provided by manufacturer (John Zink).</sup>
12<sup>SO<sub>2</sub> emission factor for gasoline derived from 11 ppm sulfur content spec for gasoline, assume all converted to SO<sub>2</sub>.</sup>
13<sup>SO<sub>2</sub> emission factor for propane based on a national estimate of sulfur content, 0.54 grains/100 ft<sup>3</sup> was assumed.</sup>
14<sup>PM emission factor for gasoline vapors from AP-42, Table 1.4-2.</sup>
15<sup>PM emission factor for propane vapors from AP-42, Table 1.5-1.</sup>
16<sup>Emissions from other insignificant activities are assumed to be negligible.</sup>
Greenhouse Gas (GHG) Emissions:

<table>
<thead>
<tr>
<th>Fuel</th>
<th>CO₂ (tpy)</th>
<th>CH₄ (tpy)</th>
<th>N₂O (tpy)</th>
<th>CO₂e (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCU Pilot Gas (Propane)</td>
<td>31</td>
<td>0.0015</td>
<td>0.0003</td>
<td></td>
</tr>
<tr>
<td>VCU Load Rack Vapors (Gasoline)</td>
<td>1297</td>
<td>0.055</td>
<td>0.0111</td>
<td></td>
</tr>
<tr>
<td><strong>Total Emissions</strong></td>
<td><strong>1,328</strong></td>
<td><strong>0.057</strong></td>
<td><strong>0.011</strong></td>
<td><strong>1,333</strong></td>
</tr>
</tbody>
</table>

GHG emission factors from Tables C-1 and C-2 of 40 CFR Part 98

Alternate Operating Scenarios:

The applicant did not propose any alternate operating scenarios.

Insignificant Activities:

All activities listed below qualify per HAR §11-60.1-82(f)(7).

1. One (1) fixed roof Tank No. 4134 (18,100 bbls) - low sulfur diesel/jet fuel storage;
2. Two (2) portable storage tanks (350 gallons each) - additive storage;
3. Ethanol off-loading skid;
   a. Off-loads ethanol from tank trucks into petroleum storage tanks;
   b. Consists of hose, pump header and related piping;
4. Ethanol injection system;
5. 500-gallon propane tank for VCU pilot gas;
6. Jet fuel processing equipment. The jet fuel processing equipment include the following:
   a. Jet fuel pre-treatment vessel;
   b. Jet fuel transfer pump;
   c. Jet fuel filter/seperator system – removes sediment and water from jet fuel downstream of Tank No. 4134, consists of two (2) vessels each containing an internal filter and coalesce;
   d. Tank No. 4134 water removal system – removes water from Tank No. 4134 bottoms, consists of a collection tank and pump;
   e. Portable storage tank – water and sediment drained from filter/seperator vessels; and
   f. Portable storage tank – jet samples.

Ambient Air Quality Assessment:

The existing petroleum storage tanks and petroleum tank truck load rack emit fugitive VOCs and any HAPs associated with these VOCs. An ambient air quality impact assessment is not required for the following reasons: 1) VOCs do not have an ambient air quality standard, and 2) the Department of Health air modeling guidance generally exempts an applicant from performing an ambient air quality impact assessment for fugitive sources (storage tanks, pipe leaks, etc.).
Significant Permit Conditions/Changes:

1. Removed the petroleum barge off-loading headers from Attachment IIB of the permit and the associated throughput limits for the petroleum barge off-loading headers.
2. Updated the insignificant activities.

Conclusion/Recommendation:

Recommend issuing the renewal for CSP No. 0382-02-C, subject to the significant permit conditions described above, a thirty (30) day public comment period, and a forty-five (45) day Environmental Protection Agency review period.

Reviewer: Darin Lum
Date: 6/2021
Application and Supporting Information
Certified Mail No. 7018 0360 0000 1904 5648

October 7, 2019

Ms. Marianne Rossio, P.E.
Manager, Clean Air Branch
Hawaii Department of Health
2827 Waimano Home Road, Room 130
Pearl City, Hawaii 96782

Subject: Application for a Covered Source Permit Renewal
Par Hawaii, LLC– Kawaihae Terminal (formerly Mid Pac Petroleum, LLC)
61-3651 Kawaihae Road, Kamuela, Hawaii 96743
Covered Source Permit (CSP) No. 0382-02-C
Date of Expiration November 8, 2020

Dear Ms. Rossio:

Par Hawaii, LLC (formerly Mid-Pac Petroleum) respectfully submits one original plus one copy of the enclosed and updated permit renewal application for the Kawaihae Terminal located in Kamuela, Hawaii.

As required by HAR 11-60.1-101(b), we are submitting an application and a $500.00 check fee for the renewal of Covered Source Permit No. 03820-02-C on September 25, 2019.

The items listed below supersede the forms in the November 20, 2018 permit application package to eliminate any confusion:

Attachment A  Form S-1: Standard Air Pollution Control Permit Application
Attachment B  Form S-3: Application for a Covered Source Permit Renewal
Attachment C  Form C-1: Compliance Plan
Attachment D  Form C-2: Compliance Certification
Attachment E  Facility Plot Plan
Attachment F  Tank Emissions
Attachment G  TankESP Model Inputs and Outputs
Attachment H  Potential to Emit Air Emissions (VOCs and HAPs)

It is requested to remove any reference or limits to the Barge Loading Headers. Barges are not loaded at Kawaihae and barges are not ballasted using water into tanks that previously held petroleum products. During off-loading, petroleum product is removed from the tank, there are no emissions from the
headers or the barge. Any residual vapors from off-loading remain in the barge tanks. If you have any questions or need additional information, please contact Patrick Iona, Environmental Health and Safety Manager at (808) 547-3964 or email him at Plona@parpacific.com.

Sincerely,

Eric Wright
Senior Vice President

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

Enclosures: Attachments A through H
Check 73122 for Renewal Fee
DISTRIBUTION

Env Chron File

Jack Clayton
Patrick Iona
Francis Livingston
Ted Metrose
Richard Rosen
Benton Widlansky
Eric Wright
Attachment A
Application for a Covered Source Permit
0382-02-C
Renewal

Form S-1
S-1: Standard Air Pollution Control Permit Application Form
(Covered Source Permit and Noncovered Source Permit)

State of Hawaii
Department of Health
Environmental Management Division
Clean Air Branch
P.O. Box 3378  •  Honolulu, HI 96801-3378  •  Phone: (808) 586-4200

1. Company Name: Par Hawaii, LLC

2. Facility Name (if different from the Company): Kawaihae Terminal

3. Mailing Address: 61-3651 Kawaihae Road
   City: Kamuela  •  State: HI  •  Zip Code: 96743
   Phone Number: (808) 882-7311

4. Name of Owner/Owner’s Agent: Eric Wright
   Title: Senior Vice President  •  Phone: (808) 203-2346
   Mailing Address: 1132 Bishop Street, Suite 2500
   City: Honolulu  •  State: HI  •  Zip Code: 96813

5. Plant Site Manager/Other Contact: Francis Livingston
   Title: Lead Operator  •  Phone: (808) 887-7311
   Mailing Address: 61-3651 Kawaihae Road
   City: Kamuela  •  State: HI  •  Zip Code: 96743

6. Permit Application Basis: (Check all applicable categories.)
   □ Initial Permit for a New Source  □ Initial Permit for an Existing Source
   ■ Renewal of Existing Permit  □ General Permit
   □ Temporary Source  □ Transfer of Permit
   □ Modification to a Covered Source: - - > Is Modification?  □ Significant  □ Minor  □ Uncertain
   □ Modification to a Noncovered Source

7. If renewal or modification, include existing permit number: CSP 0382-02-C

8. Does the Proposed Source require a County Special Management Area Permit?  □ Yes  ■ No

9. Type of Source (Check One):  ■ Covered Source  □ Covered Source and PSD
   ■ NonCovered Source  □ Uncertain

10. Standard Industrial Classification Code (SICC), if known: NAICS Code 424710 (formerly SIC Code 5171)

(7/06)  Form S-1  Page 1
11. Proposed Equipment/Plant Location (e.g. street address): 61-3651 Kawaihae Road
   City: Kawaihae                                State: HI                                Zip Code: 96743
   UTM Coordinates (meters): East: 204044       North: 2218162
   UTM Zone: 5                                  UTM Horizontal Datum: □ Old Hawaiian     □ NAD-27     ■ NAD-83


13. Date of Planned Commencement of Construction or Modification: NA

14. Is any of the equipment to be leased to another individual or entity? Yes   ■ No

15. Type of Organization: □ Corporation      □ Individual Owner  □ Partnership
    □ Government Agency (Government Facility Code:________)  ■ Other: Limited Liability Company

Any applicant for a permit who fails to submit any relevant facts or who has submitted incorrect information in any permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, an applicant shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application, but prior to the issuance of the noncovered source permit or release of a draft covered source permit. (HAR §11-60.1-64 & 11-60.1-64)

RESPONSIBLE OFFICIAL
(as defined in HAR §11-60.1-1)

Name (Last): Wright (First): Eric (MI): ______
Title: Senior Vice President                      Phone: (808) 203-2346
Mailing Address: 1132 Bishop Street, Suite 2500
City: Honolulu                                State: HI                                Zip Code: 96813

Certification by Responsible Official
(pursuant to HAR §11-60.1-4)
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. I further state that I will assume responsibility for the construction, modification, or operation of the source in accordance with the Hawaii Administrative Rules (HAR), Title 11, Chapter 60.1, Air Pollution Control, and any permit issued thereof.

NAME    (Print/Type): Eric Wright
(Signature): ____________________________ Date: 10/7/2019

FOR AGENCY USE ONLY:
File/Application No: 0382-1D
Island: HAWAI
Date Received: 10/8/19

(7/06) Form S-1 Page 2
Submit the following documents as part of your application:

A. The Emissions Units Table, filled in as completely as possible. Use separate sheets of paper as needed. General instructions include the following:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on the location drawing and previous permits; if known, provide the SICC number. Emission points shall be identified and described in sufficient detail to establish the basis for fees and applicability of requirement of HAR, Chapter 11-60.1. Examples of emission point names are: heater, vent, boiler, tank, baghouse, fugitive, etc. Abbreviations may be used.
   a. For each emission point use as many lines as necessary to list regulated and hazardous air pollutant data.
   For hazardous air pollutants, also list the Chemical Abstracts Service number (CAS#).
   b. Indicate the emission points that discharge together for any length of time.
   c. The Equipment Date is the date of equipment construction, reconstruction, or modification. Provide supporting documentation.

2. State the maximum emission rates in terms sufficient to establish compliance with the applicable requirements and standard reference test methods. Provide all supporting emission calculations and assumptions:
   a. Include all regulated and hazardous air pollutants and air pollutants for which the source is major, as defined in HAR §11-60.1-1. Examples of regulated pollutant names are: Carbon Monoxide (CO), Nitrogen Oxides (NOx), Sulfur Dioxide (SO2), Volatile Organic Compounds (VOC), particulate matter (PM), and particulate less than 10 microns (PM10). Abbreviations may be used.
   b. Include fugitive emissions.
   c. Pounds per hour (#/HR) is the maximum potential emission rate expected by applicant.
   d. Tons per year is the annual maximum potential emissions expected by the applicant, taking into account the typical operating schedule.

3. Describe Stack Source Parameters:
   a. Stack Height is the height above the ground.
   b. Direction refers to the exit direction of stack emissions: up, down or horizontal.
   c. Flow Rate is the actual, not the calculated, flow rate.

4. Provide any additional information, if applicable, as follows:
   a. If combinations of different fuels are used that cause any of the stack source parameters to differ, complete one row for each possible set of stack parameters and identify each fuel in the Equipment Description.
   b. For a rectangular stack, indicate the length and width.
   c. Provide any information on stack parameters or any stack height limitations developed pursuant to Section 123 of the Clean Air Act.

B. A process flow diagram identifying all equipment used in the process, including the following:
   1. Identify and describe each emission point.
   2. Identify the locations of safety valves, bypasses, and other such devices which when activated may release air pollutants to the atmosphere.

C. A facility location map, drawn to a reasonable scale and showing the following:
   1. The property involved and all structures on it. Identify property/fence lines plainly.
   2. Layout of the facility.
   3. Location and identification of the proposed emissions unit on the property.
   4. Location of the property and equipment with respect to streets and all adjacent property. Show the location of all structures within 100 meters of the applicant's emissions unit. Provide the building dimensions (height, length, and width) of all structures that have heights greater than 40% of the stack height of the emissions unit.
<table>
<thead>
<tr>
<th>Stack No.</th>
<th>Equipment Name/Description</th>
<th>Eq</th>
<th># HR</th>
<th>Tons/yr</th>
<th>Coordinates (mtrs)</th>
<th>UTM Zone: 5 NAD-83</th>
<th>Stack Height (mtrs)</th>
<th>Direction (u/ldph)</th>
<th>Inside Diameter (mtrs)</th>
<th>Velocity (m/s)</th>
<th>Flow Rate (m³/s)</th>
<th>Temp. (°K)</th>
<th>Capped (YN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Tank 4129</td>
<td>-Internal floating roof</td>
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<td>-Gasoline</td>
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<td>Storage Tank 4132</td>
<td>-Internal floating roof</td>
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<td>Petroleum Truck Loading Rack</td>
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<td>-1,460,000 bbls Gasoline per rolling 12 months</td>
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<td>-162,060 bbls Ethanol per rolling 12 months</td>
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<td>-1,095,000 bbls Diesel/Jet per rolling 12 months</td>
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<tr>
<td>Equipment Name/ Description &amp; SICC number</td>
<td>Eq.</td>
<td>Regulated/Hazardous Air Pollutant Name &amp; CAS#</td>
<td>#/HR</td>
<td>Tons/YR</td>
<td>Coordinates (mtrs)</td>
<td>Stack Height (mtrs)</td>
<td>Direct. (up/dn)</td>
<td>Inside Diameter (mtrs)</td>
<td>Velocity (m/s)</td>
<td>Flow Rate (m³/s)</td>
<td>Temp. (°F)</td>
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<tr>
<td><strong>Please Remove-Off Loading only</strong></td>
<td></td>
<td>Petroleum Barge Loading Headers</td>
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<td>-1,095,000 bbls Diesel/Jet Fuel</td>
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<tr>
<td>Storage Tank 4134</td>
<td></td>
<td>See Attachment H for pollutant and emissions data</td>
<td></td>
<td></td>
<td>East 204036</td>
<td></td>
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<td></td>
<td>12 15.0</td>
<td>0.0</td>
<td>Ambient</td>
<td></td>
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<tr>
<td>- Fixed roof</td>
<td></td>
<td>See Attachment F VOC Summary</td>
<td></td>
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<td>North 2218150</td>
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<tr>
<td>- 18,100 bbl nominal capacity</td>
<td></td>
<td>52’ D x 48’ shell H Diesel/Jet Fuel</td>
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<tr>
<td>Two Portable Storage Tanks</td>
<td></td>
<td>Insignificant</td>
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<td>East 204044</td>
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<td>- 350 gal capacity (each)</td>
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<td>North 2218162</td>
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<tr>
<td>- Additive</td>
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<tr>
<td>Ethanol Off-Loading Skid</td>
<td></td>
<td>Insignificant</td>
<td></td>
<td></td>
<td>East 204053</td>
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<td>North 2218153</td>
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<tr>
<td>Ethanol Injection System</td>
<td></td>
<td>Insignificant</td>
<td></td>
<td></td>
<td>East 204053</td>
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<td>North 2218153</td>
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<tr>
<td>Jet Fuel Processing Equipment</td>
<td></td>
<td>Insignificant</td>
<td></td>
<td></td>
<td>East 204036</td>
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<td>North 2218150</td>
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</tbody>
</table>

Specify UTM Horizontal Datum as Old Hawaiian, NAD-83, or NAD-27

Specify the direction of the stack exhaust as u = upward, d = downward, or h = horizontal

** Minimal emissions when hatches are opened on the barge. Off-Loading process otherwise has no emissions. Nothing is pumped backed to the barge.

The jet fuel processing equipment includes the following insignificant activities from Attachment II-INSIG, Section A, of Covered Source Permit No. 0382-02-C:
1) Jet fuel pre-treatment vessel
2) Jet fuel transfer pump
3) Jet fuel filter/separator system
4) Tank 4134 water removal system
5) Portable storage tank – water and sediment
6) Portable storage tank – jet samples

Form S-1
Attachment B
Application for a Covered Source Permit
0382-02-C
Renewal

Form S-3
S-3: Application for a Covered Source Permit Renewal

Each application for permit renewal shall be submitted to the Director of Health, (hereafter, Director) a minimum of twelve months prior to the date of permit expiration. In providing the required information, please reference the corresponding letters and numbers listed below.

Provide a minimum of two (2) sets (1 original and 1 copy) of all application materials to the Hawaii Department of Health. Also, mail one (1) set directly to EPA at the following address:

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

I. In accordance with Hawaii Administrative Rules (HAR) §11-60.1-101, the following information is required:

A. Statement certifying that no changes have been made in the design or operation of the source as proposed in the initial and any subsequent Covered Source Permit applications. If changes have occurred or are being proposed, the applicant shall provide a description of those changes such as work practices, operations, equipment design, and monitoring procedures, including the affected applicable requirements associated with the changes and the corresponding information to determine the applicability of all applicable requirements.

Changes made in the design or operation of the Kawaihæ Terminal are as follows.

Approval was received on July 17, 2019 to construct and operate a second diesel/jet loading arm. Currently the tank truck load rack is bottom loading with 2 gasoline loading arms and 2 jet fuel/diesel loading arms.

Currently, the permit has throughput limits for the Barge Off-Loading Headers (Attachment IIB). It is requested that the throughput limits for the barge Off-Loading headers be removed. When “off-loading” a barge there are no emissions, there are emissions only when loading product onto barges or when ballasting and using tanks that previously held product. At the Kawaihæ Terminal, there is no loading of barges and there is no ballasting on the barges which would displace vapors in the tanks. Product is pumped to the terminal from the barge and the vapors are controlled at the tanks with internal floating roofs. There is no transferring of product back to the barge, although it was attempted once unsuccessfully. The barge tried “pulling” the product back to the barge using pumps on the barge, but that was not successful. Except for this one attempt, pumping to a barge is not a procedure used by the terminals practice. The terminal does not have the necessary cargo pumps or the capability to pump to a barge.

If attempted again, it would only be for jet fuel, which has low emissions, but is normally checked for specifications before it gets to the terminal. Other products are also tested prior to storage at
the terminal and if off-specification, would be managed at the location.

The terminal recently completed the installation of piping within the terminal that would allow the receipt of ethanol through the gasoline product line from the pier, if needed. This involved connecting the gasoline pipe inside the terminal with the ethanol tank. Ethanol is still currently being received by tank truck. Again, request that this not be included with the barge header throughput limits. All barge off-loading results in emissions at the terminal and is no different than filling of tanks by any other method. The throughput at the load rack for ethanol is still the same and emissions are the same at the ethanol tank and the load rack.

B. Equipment Specifications: One (1) 12.4 MMBtu/hr John Zink enclosed flame vapor combustion unit, model no. ZCT-2-5-30-X-2/6-Flanged with a thirty (30) foot exhaust stack height.

1. Maximum design capacity. Pumping rates are approximately 600 gpm for truck loading (maximum capacity of vapor combustor is 1,200 gpm).
2. Fuel type. Propane as pilot gas
3. Fuel use. Propane as pilot gas and gasoline vapors from the truck loading rack.
4. Production capacity.
5. Production rates
6. Raw materials. Gasoline and ethanol vapors from the loading rack.
7. Provide any manufacturer's literature.

All other equipment specifications are summarized in the Emissions Units Table of Form S-1.

C. Provide detailed descriptions of all processes and products defined by Standard Industrial Classification Code (SICC). Also, provide any reasonably anticipated alternative operating scenarios, associated processes, and products, by SICC.

The Kawaihae Terminal has an SIC code of 5171 and is a bulk petroleum terminal that currently receives gasoline, jet fuel, diesel, and denatured ethanol from marine barges or tank trucks. These products are stored in four (4) above ground storage tanks, and bottom loads products into outbound tank trucks at a single-bay truck loading rack with four (4) loading arms.

1. Identify and describe in detail all air pollution control equipment and compliance monitoring devices or activities, and to the extent of available information, an estimate of emissions before and after controls. Provide all calculations and assumptions.

The Kawaihae Terminal operates a vapor combustion unit (VCU) to control emissions from the tank trucks for gasoline, ethanol and naphtha. The VCU uses propane as a pilot gas and there is a 500 gallon propane tank at the facility for this purpose. The required compliance monitoring is described in Attachment IIB Section C and D.

Tanks 4129, 4130, 4132 and 4133 are fixed roof tanks equipped with internal floating roofs. Required compliance monitoring is described for the applicable tanks in Attachment IIA Section D.

A summary of emissions are provided in Table C-1 below. See more complete listing results in Attachment F (for VOCs) and Attachment H provides a more detailed listing of the total volatile organic compounds and the hazardous air pollutants.
Table C-1. Regulated Air Pollutants PTE Emissions (tpy)

<table>
<thead>
<tr>
<th></th>
<th>CO</th>
<th>NOX</th>
<th>PM</th>
<th>SO2</th>
<th>VOC</th>
<th>HAPs</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tanks</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5.24</td>
<td>0.61</td>
<td></td>
</tr>
<tr>
<td>Fugitives</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.185</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>Combustion/</td>
<td>2.84</td>
<td>1.14</td>
<td>0.07</td>
<td>0.01</td>
<td>8.8</td>
<td>0.543</td>
<td>1,353</td>
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<tr>
<td>Load Rack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>2.84</td>
<td>1.14</td>
<td>0.07</td>
<td>0.01</td>
<td>14.26</td>
<td>1.13</td>
<td></td>
</tr>
</tbody>
</table>

2. List all *insignificant* activities in accordance with HAR §11-60.1-82.
   - Storage Tank 4134 Diesel/Jet Fuel - Fixed roof 18,100 bbl
   - Two Portable Storage Tanks - 350 gal capacity (each) for additive storage.
   - Ethanol Off-Loading Skid
   - Ethanol Injection System
   - 500 gallon propane tank for VCU pilot gas.
   - Jet Fuel Processing Equipment. The jet fuel processing equipment includes the following insignificant activities
     - Jet fuel pre-treatment vessel
     - Jet fuel transfer pump
     - Jet fuel filter/separator system
     - Tank 4134 water removal system
     - Portable storage tank – water and sediment
     - Portable storage tank – jet samples

D. Maximum Operating Schedule (to the extent needed to determine or regulate emissions):

1. Total hours per day, per week, and/or per month.

   The KawaihæTerminal operates 24 hours a day, 7 days a week, 365 days a year. The loading rack Vapor Combustion Unit is expected to operate up to 10 hours a day.

2. Total hours per year.
   - Facility: 8760 hours/year
   - Vapor Combustion Unit 3650 hours/year

3. If operation is seasonal or irregular, describe.
   - N/A
E. Cite and describe all applicable requirements as defined in HAR §11-60.1-81, including the following:

1. Description of or reference to any applicable test methods for determining compliance with each applicable requirement.

   Kawaihae Terminal truck loading rack requirements and applicable test methods for determining compliance, are described in Attachment IIB, of the Covered Source Permit No. 0382-02-C. Includes Sections C, D and F. This includes not exceeding the throughput limits, tightness records for trucks prevention of loading of non-compliant trucks, testing the vapor combustor using methods 21, 2B and 25A (or B)

   Kawaihae Terminal petroleum storage tank requirements and applicable test methods for determining compliance, are described in Attachment IIA, of the Covered Source Permit No. 0382-02-C. Includes Sections C, D and F. Included are annual inspections of the seals on the internal floating roofs and internal inspections every 10 years or less for tank 4129. Other requirements include maintaining records of True Vapor Pressure and not exceeding 11.1 psia.

3. Explanation of all proposed exemptions from any applicable requirements.

   There are no emissions when barge off-loading. Petroleum pumped from the tanks pulls the vapors with it. Any vapors that remain in the tanks, are left in the tank. There is no ballasting with water using the tanks previously filled with petroleum product. Petroleum products are pumped to the appropriate tanks in the terminal and the emissions from the operation become part of the estimated emissions from the tanks. Tanks have emission controls and the tank emissions estimates already account for the filling of tanks.

   The Barge Loading is exempt and it is requested to remove the following: Attachment IIB Remove Sections A.1.c, C.2., D.14. E.3. (reference to the Barge-Off Loading Headers) and E.6. (reference to the Barge-Off Loading Headers), and the Forms for the Petroleum Barge Off-Loading Headers.

F. Identify and describe current operational limitations or work practices that affect emissions of any regulated or hazardous air pollutant. Provide all calculations and assumptions.

   Operational limitations and work practices that affect the emissions of criteria pollutants and HAPs for the Kawaihae Terminal truck load rack and tanks are listed in the following sections of Covered Source Permit No. 0382-02-C:

1. Attachment IIA, Special Condition Petroleum Storage Tanks – Four petroleum storage tanks 4129, 4130, 4132 and 4133. Operational Limitations and Monitoring and Recordkeeping requirements are found in Sections C and D for all tanks.

2. Attachment IIB, Special Conditions Section A.1.a.– Tank Truck Bottom Load Rack with 2 gasoline and 2 Jet/Diesel loading arms, ethanol injection system and a John Zink 12.4 MMBtu/hr enclosed flame vapor combustion unit.—Operational Limitations and Monitoring and Recordkeeping requirements are found in Sections C and D.

3. Attachment IIB, Special Conditions Section A.1.b. Petroleum barge off-loading headers. Operational Limitations and Monitoring and Recordkeeping requirements are found in Sections C and D.

   It is requested to remove Section C. 2. Petroleum Barge Off-Loading Headers. The emissions are part of the tank throughputs and there are no emissions from the barges.

4. Attachment IIC, Special Conditions – Equipment in Gasoline Service – Operational Limitations and Monitoring and Recordkeeping requirements are found in Sections C and D.

5. Attachment II - INSIG, Special Conditions – Insignificant Activities - Operational Limitations and Monitoring and Recordkeeping requirements are found in Sections C and D.
All emission calculations and assumptions that support the operational limitations are provided for VOCs in the summaries found in Attachment F and Attachment H.

G. For new covered sources and significant modifications which increase the emissions of any air pollutant or result in the emission of any air pollutant not previously emitted, an assessment of the ambient air quality impact of the covered source or significant modification, with the inclusion of any available background air quality data. The assessment shall include all supporting data, calculations and assumptions, and a comparison with the NAAQS and SAAQS.

N/A

H. For new covered sources and significant modifications subject to the requirements of subchapter 7 of HAR Chapter 11-60.1, all analyses, assessments, monitoring, and other application requirements of subchapter 7.

N/A

I. Provide detailed information to define permit terms and conditions for any proposed emissions trading within the facility in accordance with HAR §11-60.1-96.

No emissions trading within the facility pursuant to HAR §11-60.1-96 is proposed.

J. Provide the following for Compliance purposes:
   1. A Compliance Plan, Form C-1.
   2. A Compliance Certification, Form C-2.

Refer to Attachment C and Attachment D within this submittal package for Form C-1 and Form C-2, respectively.

II. Submit an application fee according to the Application Fee Schedule in the Instructions for Applying for an Air Pollution Control Permit.

A check in the amount of $500 is submitted with this application.

III. Provide other information as follows:
   A. As required by any applicable requirement or as requested and deemed necessary by the Director to make a decision on the application.
   B. As may be necessary to implement and enforce other applicable requirements of the Clean Air Act or of HAR Chapter 11-60.1 or to determine the applicability of such requirements.

IV. The Director reserves the right to request the following information:
   A. An assessment of the ambient air quality impact of the source or modification. The assessment shall include all supporting data, calculations and assumptions, and a comparison with the National Ambient Air Quality Standards and State Ambient Air Quality Standards.
   B. A risk assessment of the air quality related impacts caused by the covered source or significant modification to the surrounding environment.
   C. Results of source emissions testing, ambient air quality monitoring, or both.
   D. Information on other available control technologies.

V. An application shall be determined to be complete only when all of the following have been complied with:
   A. All information required or requested in numbers I, III, and IV has been submitted.
   B. All documents requiring certification have been certified pursuant to HAR §11-60.1-4.
   C. All applicable fees have been submitted.
   D. The Director has certified that the application is complete.
VI. The Director shall not continue to act upon or consider an incomplete application.
   A. The applicant shall be notified in writing whether the application is complete. Unless the Director requests additional information or notifies the applicant of incompleteness within sixty days of receipt of an application, the application shall be deemed complete.
   B. During the processing of an application that has been determined or deemed complete, if the Director determines that additional information is necessary to evaluate or take final action on the application, the Director may request such information in writing and set a reasonable deadline for a response. As set forth in HAR §11-60.1-82, the covered source’s ability to operate and the validity of the Covered Source Permit shall continue beyond the permit expiration date until the final permit is issued or denied, provided the applicant submits all additional information within the reasonable deadline specified by the Director.

VII. After receipt of a complete application, the Director, in writing, shall approve, conditionally approve, or deny an application:
   A. Within twelve months, except for applications for renewal for coverage under a covered source general permit. If the application for renewal has not been approved or denied within twelve months, the Covered Source Permit and all its terms and conditions shall remain in effect and not expire until the application for renewal has been approved or denied and provided the applicant has submitted any additional information within the reasonable deadline specified by the Director.
   B. Within six months for applications for renewal requesting coverage under a covered source general permit. If the application for renewal has not been approved or denied within six months, the coverage under the covered source general permit and all its terms and conditions shall remain in effect and not expire until the application for renewal has been approved or denied and provided the applicant has submitted any additional information within the reasonable deadline specified by the Director.

VIII. A Covered Source Permit renewal application shall be approved only if the Director determines that the operation of the covered source will be in compliance with all applicable requirements.

IX. The Director shall provide for public notice, including the method by which a public hearing can be requested, and an opportunity for public comment on the draft Covered Source Permit renewal in accordance with HAR §11-60.1-99.

X. The Director shall provide a statement that sets forth the legal and factual bases for the draft permit conditions (including references to the applicable statutory or regulatory provisions) to EPA and any other person requesting it.

XI. Each application for renewal and proposed Covered Source Permit shall be subject to EPA oversight in accordance with HAR §11-60.1-95.
Attachment C
Application for a Covered Source Permit

0382-02-C
Renewal

Form C-1
C-1: Compliance Plan

The Responsible Official shall submit a Compliance Plan as indicated in the Instructions for Applying for an Air Pollution Control Permit and at such other times as requested by the Director of Health (hereafter, Director).

Use separate sheets of paper if necessary.

1. Compliance status with respect to all Applicable Requirements:

Will your facility be in compliance, or is your facility in compliance, with all applicable requirements in effect at the time of your permit application submittal?

☒ YES  (If YES, complete items a and c below)
☐ NO   (If NO, complete items a, b, and c below)

a. Identify all applicable requirement(s) for which compliance is achieved.

Covered Source Permit No. 082-02-C

<table>
<thead>
<tr>
<th>Attachment I:</th>
<th>Standard Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment IIA:</td>
<td>Special Conditions - Petroleum Storage Tanks</td>
</tr>
<tr>
<td>Attachment IIB:</td>
<td>Special Conditions - Tank Truck Load Rack and Barge Off-Loading Headers</td>
</tr>
<tr>
<td>Attachment IIC:</td>
<td>Special Conditions - Equipment in Gasoline Service</td>
</tr>
<tr>
<td>Attachment II - INSIG:</td>
<td>Special Conditions - Insignificant Activities</td>
</tr>
</tbody>
</table>

Provide a statement that the source is in compliance and will continue to comply with all such requirements.
The Kawaihae Terminal is in compliance and will continue to be in compliance with the terms and conditions of the Covered Source Permit.

b. Identify all applicable requirement(s) for which compliance is NOT achieved.

None

Provide a detailed Schedule of Compliance Schedule and a description of how the source will achieve compliance with all such applicable requirements.

<table>
<thead>
<tr>
<th>Description of Remedial Action</th>
<th>Expected Date of Completion</th>
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</thead>
<tbody>
<tr>
<td>NA</td>
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</table>

(07/06)  Form C-1  Page 1 of 3
c. Identify any other applicable requirement(s) with a future compliance date that your source is subject to. These applicable requirements may take effect AFTER permit issuance:

<table>
<thead>
<tr>
<th>Applicable Requirement</th>
<th>Effective Date</th>
<th>Currently in Compliance?</th>
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</tbody>
</table>

If the source is not currently in compliance, provide a Schedule of Compliance and a description of how the source will achieve compliance with all such applicable requirements:

<table>
<thead>
<tr>
<th>Description of Proposed Action/Steps to Achieve Compliance</th>
<th>Expected Date of Achieving Compliance</th>
</tr>
</thead>
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</tbody>
</table>

Provide a statement that the source on a timely basis will meet all these applicable requirements:

NA

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If the expected date of achieving compliance will NOT meet the applicable requirement’s effective date, provide a more detailed description of each remedial action and the expected date of completion:

<table>
<thead>
<tr>
<th>Description of Remedial Action and Explanation</th>
<th>Expected Date of Completion</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

2. Compliance Progress Reports:

a. If a compliance plan is being submitted to remedy a violation, complete the following information:

   Frequency of Submittal: NA
   (less than or equal to 6 months)

   Beginning Date: NA
b. Date(s) that the Action described in (1)(b) was achieved:

<table>
<thead>
<tr>
<th>Remedial Action</th>
<th>Date Achieved</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td></td>
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</tbody>
</table>

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c. Narrative description of why any date(s) in (1)(b) was not met, and any preventive or corrective measures taken in the interim:

NA

---

**RESPONSIBLE OFFICIAL**

(as defined in HAR §11-60.1-1)

Name (Last): Wright  (First): Eric  (MI): 

Title: Senior Vice President  Phone: (808) 203-2346

Mailing Address: 1132 Bishop Street Suite 2500

City: Honolulu  State: HI  Zip Code: 96813

---

**Certification by Responsible Official**

(pursuant to HAR §11-60.1-4)

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. 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.

Name (Print/Type): Eric Wright  (Signature):  

Date: 10/7/2019

Facility Name: Kawaihae Terminal

Location: 61-3651 Kawaihae Road, Kamuela, HI 96743

Permit Number: CSP 0382-02-C

---

FOR AGENCY USE ONLY

File/Application No.: 

Island: 

Date Received: 

(07/06) Form C-1 Page 3 of 3
Attachment D
Application for a Covered Source Permit
0382-02-C
Renewal

Form C-2
C-2: Compliance Certification

The Responsible Official shall submit a Compliance Certification as indicated in the Instructions for Applying for an Air Pollution Control Permit and at such other times as requested by the Director of Health (hereafter, Director).

Complete as many copies of this form as needed. Use separate sheets of paper if necessary.

RESPONSIBLE OFFICIAL (as defined in HAR §11-60.1-1)

Name (Last): Wright
(First): Eric
(MI): __________

Title: Senior Vice President

Phone: (808) 203-2346

Mailing Address: 1132 Bishop Street, Suite 2500

City: Honolulu
State: HI
Zip Code: 96813

Certification by Responsible Official (pursuant to HAR §11-60.1-4)

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. 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.

Name (Print/Type): Eric Wright
(Signature): ____________________________
Date: 10/7/2019

Facility Name: Kawaihae Terminal

Location: 61-3651 Kawaihae Road, Kamuela, Hawaii 96743

Permit Number: 0382-02-C

FOR AGENCY USE ONLY

File/Application No.: __________
Island: __________
Date Received: __________
Complete the following information for each applicable requirement that applies to each emissions unit at the source. Also include any additional information as required by the Director. The compliance certification may reference information contained in a previous compliance certification submittal to the Director, provided such referenced information is certified as being current and still applicable.

1. Schedule for submission of Compliance Certifications during the term of the permit:
   Frequency of Submittal: Annual Beginning Date: ________________

2. Emissions Unit No./Description: Kawaihae Terminal

3. Identify the applicable requirement(s) that is/are the basis of this certification:
   See Attachment C - Form C-1 Compliance Plan, Section (1)(a)

4. Compliance status:
   a. Will the emissions unit be in compliance with the identified applicable requirement(s)?
      ☑ YES ☐ NO
   b. If YES, will compliance be continuous or intermittent?
      ☑ Continuous ☐ Intermittent
   c. If NO, explain:
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________

5. Describe the methods to be used in determining compliance of the emissions unit with the applicable requirement(s), including any monitoring, recordkeeping, reporting requirements, and/or test methods:
   The Kawaihae Terminal will comply with all of monitoring, recordkeeping, reporting requirements, and/or test methods.

   Provide a detailed description of the methods used to determine compliance (e.g. monitoring device type and location, test method description, or parameter being recorded, frequency of recordkeeping, etc.):
   The Kawaihae Terminal determines compliance according to all requirements documented in its Covered Source Permit No. 0382-02-C, such as, but not limited to, visual/physical inspections; non-resetting volumetric flow meters; certificates of analysis; portable gas monitors; load rack receipts; written inspection
   a. Will the emissions unit identified in this application be in compliance with applicable enhanced monitoring and compliance certification requirements?
      
      [X] YES  [ ] NO

   b. If YES, identify the requirements and the provisions being taken to achieve compliance:

      There are no Enhanced Monitoring and Compliance Certification requirements

   c. If NO, describe below which requirements will not be met:
Attachment E
Application for a Covered Source Permit
0382-02-C
Renewal

Facility Plot Plan
Portable containers are stored underneath the canopy at the load rack. Portable containers consist of an additive tank and two portable intermediate bulk containers (IBC).

New jet fuel equipment is added. Sump Separator (SS) and Filter Separator are installed.

<table>
<thead>
<tr>
<th>Tank Number</th>
<th>Substance Stored</th>
<th>Maximum Capacity (gals)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4132</td>
<td>Gasoline</td>
<td>288,659</td>
</tr>
<tr>
<td>4130</td>
<td>Gasoline</td>
<td>157,876</td>
</tr>
<tr>
<td>4133</td>
<td>Gasoline</td>
<td>398,155</td>
</tr>
<tr>
<td>4134</td>
<td>Jet Fuel</td>
<td>752,786</td>
</tr>
<tr>
<td>4129</td>
<td>Ethanol</td>
<td>61,869</td>
</tr>
</tbody>
</table>
Attachment F
Application for a Covered Source Permit
0382-02-C
Renewal

Potential-to-Emit
Tanks Emissions
## ATTACHMENT F

### Kawaihae Terminal Tank Emissions

<table>
<thead>
<tr>
<th>VOC and HAPs Outputs from TanksESP</th>
<th>Kawaihae Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Site Name</strong></td>
<td><strong>Tank ID</strong></td>
</tr>
<tr>
<td><strong>Stock Abbrev.</strong></td>
<td>Ethanol_2016</td>
</tr>
<tr>
<td><strong>Throughput (gal)</strong></td>
<td>6,806,520</td>
</tr>
<tr>
<td><strong>Number of turnovers</strong></td>
<td>126.33318</td>
</tr>
<tr>
<td><strong>Benzene</strong></td>
<td>2.22</td>
</tr>
<tr>
<td><strong>Butane</strong></td>
<td>151.94</td>
</tr>
<tr>
<td><strong>Cresol (m-)</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Cumene (isopropylbenzene)</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Cyclohexane</strong></td>
<td>0.06</td>
</tr>
<tr>
<td><strong>Ethanol (ethyl alcohol)</strong></td>
<td>207.22</td>
</tr>
<tr>
<td><strong>Ethylbenzene</strong></td>
<td>0.03</td>
</tr>
<tr>
<td><strong>Hexane (n-)</strong></td>
<td>0.24</td>
</tr>
<tr>
<td><strong>Hydrogen sulfide</strong></td>
<td>no data</td>
</tr>
<tr>
<td><strong>Methyl ethyl ketone (2-butanone)</strong></td>
<td>0.05</td>
</tr>
<tr>
<td><strong>Methyl isobutyl ketone (hexone)</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Naphthalene</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Pentane (n-)</strong></td>
<td>44.56</td>
</tr>
<tr>
<td><strong>Phenol</strong></td>
<td>no data</td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>1.80</td>
</tr>
<tr>
<td><strong>Trimethylbenzene (1,2,4)</strong></td>
<td>0.00</td>
</tr>
<tr>
<td><strong>Xylene (m-)</strong></td>
<td>0.56</td>
</tr>
<tr>
<td><strong>Xylene (o-)</strong></td>
<td>0.27</td>
</tr>
<tr>
<td><strong>Xylene (p-)</strong></td>
<td>0.28</td>
</tr>
<tr>
<td><strong>Total estimated emissions (lbs)</strong></td>
<td>508.86</td>
</tr>
</tbody>
</table>
Attachment G
Application for a Covered Source Permit

0382-02-C
Renewal

TankESP Model Inputs and Outputs
## Kawaihae Tank Information

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Kawaihae Terminal</th>
<th>Kawaihae Terminal</th>
<th>Kawaihae Terminal</th>
<th>Kawaihae Terminal</th>
<th>Kawaihae Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tank ID</strong></td>
<td>4129</td>
<td>4130</td>
<td>4132</td>
<td>4133</td>
<td>4134</td>
</tr>
<tr>
<td><strong>Stock Name</strong></td>
<td>2017 Ethanol</td>
<td>2017 Regular Gasoline</td>
<td>2017 Premium Gasoline</td>
<td>2017 Regular Gasoline</td>
<td>2017 Kerosene-Type Jet Fuel</td>
</tr>
<tr>
<td>Stock RVP</td>
<td>9.89</td>
<td>9.91</td>
<td>9.89</td>
<td>0.03</td>
<td></td>
</tr>
<tr>
<td>Bulk Storage Temp. (degF)</td>
<td>79.70</td>
<td>82.92</td>
<td>83.94</td>
<td>84.10</td>
<td></td>
</tr>
<tr>
<td>Tank Height (ft)</td>
<td>32.00</td>
<td>32.00</td>
<td>40.00</td>
<td>40.00</td>
<td>48.00</td>
</tr>
<tr>
<td>Tank Diameter (ft)</td>
<td>19.00</td>
<td>30.00</td>
<td>36.70</td>
<td>42.50</td>
<td>52.00</td>
</tr>
<tr>
<td>Diameter (ft)</td>
<td>19.00</td>
<td>30.00</td>
<td>36.70</td>
<td>42.50</td>
<td>52.00</td>
</tr>
<tr>
<td>Effective Column Diameter (ft)</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Inside Shell Condition</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td>Max. Liquid Level (ft)</td>
<td>26.40</td>
<td>26.40</td>
<td>32.00</td>
<td>32.00</td>
<td>38.40</td>
</tr>
<tr>
<td>Min. Liquid Level (ft)</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Roof Slope (in/ft)</td>
<td>0.75</td>
<td>0.75</td>
<td>0.75</td>
<td>0.75</td>
<td>0.75</td>
</tr>
<tr>
<td>Shell Construction</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Shell Finish</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
<td>K</td>
</tr>
<tr>
<td>Ladder Type</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
</tr>
<tr>
<td>H/D Ratio</td>
<td>1.68</td>
<td>1.07</td>
<td>1.09</td>
<td>0.94</td>
<td>0.92</td>
</tr>
<tr>
<td>Net working height (ft)</td>
<td>25.40</td>
<td>25.40</td>
<td>31.00</td>
<td>31.00</td>
<td>37.40</td>
</tr>
<tr>
<td>Number of Columns</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Number of turnovers</td>
<td>126.33</td>
<td>45.08</td>
<td>70.16</td>
<td>186.38</td>
<td>77.40</td>
</tr>
<tr>
<td>Routine Emissions (lbs)</td>
<td>508.86</td>
<td>3445.02</td>
<td>2104.05</td>
<td>3108.49</td>
<td>1309.55</td>
</tr>
<tr>
<td>Estimated standing losses (lbs)</td>
<td>425.57</td>
<td>3401.61</td>
<td>2000.36</td>
<td>2801.12</td>
<td>162.32</td>
</tr>
<tr>
<td>Estimated working losses (lbs)</td>
<td>83.30</td>
<td>43.41</td>
<td>103.69</td>
<td>307.37</td>
<td>1147.23</td>
</tr>
<tr>
<td>Floating roof standing storage loss factor</td>
<td>186.91</td>
<td>290.08</td>
<td>173.40</td>
<td>228.61</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Attachment H
Application for a Covered Source Permit
0382-02-C
Renewal
Potential to Emit Air Emissions
(VOCs and HAPs)
## ATTACHMENT H - POTENTIAL TO EMIT

### KAWAIHAE TERMINAL

#### POTENTIAL TO EMIT

**Load Rack Losses**

<table>
<thead>
<tr>
<th>Product Loaded</th>
<th>S</th>
<th>P</th>
<th>M</th>
<th>T</th>
<th>Efficiency (lb/10³ gal)</th>
<th>Throughput (10³ gal)</th>
<th>VOC Emission (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck Load Rack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gasoline w/ Ethanol (Escaping VCU Collection)</td>
<td>1</td>
<td>7.53</td>
<td>66</td>
<td>540</td>
<td>98.7</td>
<td>0.149</td>
<td>68,127</td>
</tr>
<tr>
<td>Gasoline w/ Ethanol (Post VCU Collection &amp; Control)</td>
<td>Based on Performance Test:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jet/Diesel (Uncontrolled)</td>
<td>1</td>
<td>0.015</td>
<td>130</td>
<td>540</td>
<td>N/A</td>
<td>0.05</td>
<td>45,990</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\[ L_\text{L} = 12.46 * \text{SPMT} \]

S = saturation factor from AP-42 Table 6.2-1 for submerged loading, dedicated normal service

P = TVP (psia) of liq from AP-42, Chapter 7, Table 7.1-2, Figure 7.1-14b. For gasoline, used RVP 10 (Per gasoline RVP=6, but 10 assumed to account for ethanol).

M = MW of gasoline vapors (lb/lbmol) from AP-42 Table 7.1-2.

T = temperature or R (°F+459.6), mean temperature basis of (80°F)

Capture efficiency on Loading (upstream of VCU) assumed NSPS Level Leak.

\[ L_\text{L} \text{ from VCU based on Performance Test } 3/15/17 \text{ (9.51 mg/l avg)} = 0.0794 \text{ lb/10³ gal}. \]

**Mass Balance:**

<table>
<thead>
<tr>
<th>Total Gasoline Vapors if Uncontrolled</th>
<th>S</th>
<th>P</th>
<th>M</th>
<th>T</th>
<th>Efficiency (lb/10³ gal)</th>
<th>Throughput (10³ gal)</th>
<th>VOC Emission (ton/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minus those Escaping VCU Collection</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minus the slip</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Combustion</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Vapor Combustion Unit Emissions

**Combustion of Gasoline/Ethanol Vapors**

<table>
<thead>
<tr>
<th>CAPS</th>
<th>Emission Factor</th>
<th>TPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>768,715 lb burned as vapor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17,114.2 MMBtu captured as vapor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Combustion of Propane Pilot**

<table>
<thead>
<tr>
<th>CAPS</th>
<th>Emission Factor</th>
<th>TPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.57 gal/hr for 8670 hr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.97 10³ gal/yr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total**

<table>
<thead>
<tr>
<th>TPY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.358</td>
</tr>
</tbody>
</table>

1) NOx and CO EFs for Gasoline per VCU manufacturer (John Zink)
2) PM from gasoline vapors from AP-42, Table 1.4-2 converted to lb/MMBtu based on 1020 BTU/scf. TPY estimate assumed 0.311 MMBtu/lb from Table C-1 of 40 CFR Part 98
3) HHVs and GHG EFs per Tables C-1 and C-2 of 40 CFR Part 98
4) PM from propane from AP-42, Table 1.5-1
5) SOx EF for propane based on a national estimate of sulfur content; 0.54 grains/100 ft³ was assumed.

SOx EF for gasoline derived from 11 ppm sulfur content spec for gasoline, assume all converted to SO2.
6) MMBtu for gasoline vapors assumes 0.125 MMBtu/gal from 40 CFR 98 Table C-1 and a liquid density of 5.6 lb/gal.

### Fugitive Emissions

<table>
<thead>
<tr>
<th>Component Type</th>
<th>Number of Components</th>
<th>kg/hr/source</th>
<th>lb/hr/source</th>
<th>Operating Hours</th>
<th>VOC Emission (TPY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flanges</td>
<td>354</td>
<td>8.0E-06</td>
<td>1.76E-05</td>
<td>8760</td>
<td>0.027</td>
</tr>
<tr>
<td>Connector</td>
<td>21</td>
<td>8.0E-06</td>
<td>1.76E-05</td>
<td>8760</td>
<td>0.002</td>
</tr>
<tr>
<td>Others</td>
<td>33</td>
<td>1.30E-04</td>
<td>2.86E-04</td>
<td>8760</td>
<td>0.041</td>
</tr>
<tr>
<td>Pumps</td>
<td>9</td>
<td>5.40E-04</td>
<td>1.19E-03</td>
<td>8760</td>
<td>0.047</td>
</tr>
<tr>
<td>Valves</td>
<td>165</td>
<td>4.30E-05</td>
<td>9.46E-05</td>
<td>8760</td>
<td>0.088</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>0.185</strong></td>
</tr>
</tbody>
</table>

### Storage Tank Emissions

<table>
<thead>
<tr>
<th>Tank</th>
<th>Product</th>
<th>Throughput (10^3 gal)</th>
<th>VOC (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank 4129</td>
<td>Ethanol</td>
<td>6.807</td>
<td>0.25</td>
</tr>
<tr>
<td>Tank 4130</td>
<td>Gas 87</td>
<td>11.308</td>
<td>1.74</td>
</tr>
<tr>
<td>Tank 4132</td>
<td>Gas 92</td>
<td>21.292</td>
<td>1.06</td>
</tr>
<tr>
<td>Tank 4133</td>
<td>Gas 87</td>
<td>28.673</td>
<td>1.47</td>
</tr>
<tr>
<td>Tank 4134</td>
<td>Jet/Diesel</td>
<td>45.900</td>
<td>0.65</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>5.19</strong></td>
</tr>
</tbody>
</table>

### Annual Emissions of Hazardous Air Pollutants (HAP)

<table>
<thead>
<tr>
<th>HAP</th>
<th>Tank 4129 (tpy)</th>
<th>Tank 4130 (tpy)</th>
<th>Tank 4132 (tpy)</th>
<th>Tank 4133 (tpy)</th>
<th>Tank 4134 (tpy)</th>
<th>Load Rack (tpy)</th>
<th>Fugitives (tpy)</th>
<th>Total (tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>0.001</td>
<td>0.000</td>
<td>0.004</td>
<td>0.008</td>
<td>0.019</td>
<td>0.03</td>
<td>0.00</td>
<td>0.06</td>
</tr>
<tr>
<td>Cresol (m-)</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Cumene (iso-propylbenzene)</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>0.000</td>
<td>0.002</td>
<td>0.003</td>
<td>0.003</td>
<td>0.021</td>
<td>0.02</td>
<td>0.00</td>
<td>0.05</td>
</tr>
<tr>
<td>Hexane (n-)</td>
<td>0.000</td>
<td>0.055</td>
<td>0.016</td>
<td>0.047</td>
<td>0.096</td>
<td>0.23</td>
<td>0.00</td>
<td>0.44</td>
</tr>
<tr>
<td>Methyl isobutyl ketone (hexone)</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.003</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.001</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Phenol</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Toluene</td>
<td>0.001</td>
<td>0.028</td>
<td>0.031</td>
<td>0.028</td>
<td>0.078</td>
<td>0.17</td>
<td>0.00</td>
<td>0.34</td>
</tr>
<tr>
<td>Xylene (m-)</td>
<td>0.000</td>
<td>0.006</td>
<td>0.009</td>
<td>0.007</td>
<td>0.057</td>
<td>0.04</td>
<td>0.00</td>
<td>0.12</td>
</tr>
<tr>
<td>Xylene (o-)</td>
<td>0.000</td>
<td>0.002</td>
<td>0.003</td>
<td>0.002</td>
<td>0.033</td>
<td>0.01</td>
<td>0.00</td>
<td>0.05</td>
</tr>
<tr>
<td>Xylene (p-)</td>
<td>0.000</td>
<td>0.002</td>
<td>0.003</td>
<td>0.003</td>
<td>0.027</td>
<td>0.02</td>
<td>0.00</td>
<td>0.05</td>
</tr>
<tr>
<td><strong>Total HAP</strong></td>
<td>0.003</td>
<td>0.096</td>
<td>0.070</td>
<td>0.098</td>
<td>0.333</td>
<td>0.52</td>
<td>0.01</td>
<td><strong>1.12</strong></td>
</tr>
</tbody>
</table>

| Total VOC                  | 0.25            | 1.74            | 1.06            | 1.47            | 0.65            | 8.84           | 0.19           | **14.21**   |